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# Bibliography on COLD REGIONS SCIENCE AND TECHNOLOGY.

VOLUME 34, Part 1 and Vand

Geza T. Thuronyi Editor

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# BIBLIOGRAPHY ON COLD REGIONS SCIENCE AND TECHNOLOGY Volume 34, 1980

# **INTRODUCTION**

The Bibliography on Cold Regions Science and Technology was first published in 1951 and is a continuing publication of the Cold Regions Bibliography Project in the Science and Technology Division of the Library of Congress. It is sponsored by and prepared for the Cold Regions Research and Engineering Laboratory (formerly Snow, Ice and Permafrost Research Establishment) of the U.S. Army Corps of Engineers. Volumes 1–15 were issued as the Bibliography on Snow, Ice and Permafrost, SIPRE Report 12. Beginning with volume 16 the designation was changed to CRREL Report 12. With volume 20 the title was changed to Bibliography on Snow, Ice and Frozen Ground, with Abstracts, and with volume 23 the current title was adopted.

The present volume contains material accessioned between October 1979 and September 1980. It contains the full citation of 4255 items, in many cases with abstracts. Pt. 2 is an index section divided into author and subject indexes. In the author index principal and joint personal and corporate authors are listed along with the title, date, pagination, and language of the document and the accession number. The subject index is composed of three basic elements: 1) terms taken from a controlled vocabulary based on the *Thesaurus of Engineering and Scientific Terms* (LEX-E JC), 2) free terms added as needed, 3) geographic names, generally entered under countries. The terms are listed in a single alphabetical arrangement, along with title (original, translated, abridged, expanded, or supplied), principal author, date, pagination, and language of pertinent documents, and their accession numbers.

This publication is the result of a coordinated effort. The bibliographic work was done by the Cold Regions Bibliography Project Staff who entered all data on a single computerized data base that accommodates both the Bibliography on Cold Regions Science and Technology and the Antarctic Bibliography, thus eliminating duplication of effort between the two bibliographies. The data processing, based on MARC II input, was handled by the Library's Automated Systems Office and the photocomposition by the Cataloging Distribution Service.

Geza T. Thuronyi, Head Cold Regions Bibliography Project Science and Technology Division Library of Congress

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Arctic landscapes, Tundra, Plant ecology, Ecosystems, Environmental impact, Human factors, Climatic factors, Paraefrost matic factors. Permafrost.

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Ocean currents, Mathematical models, Fluid dynam-

ics. Arctic Ocean.

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Snow hydrology, Snow water equivalent, Water reserves, Snow cover structure, Seasonal variations, Remote sensing, New Zealand.

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Frost protection layers made of cemented materials. [Ustroistvo morozozashchitnykh sloev iz ukreplen-

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Cold tolerance of micro-arthropoda from Alaskan taigs.

Block, W., Ecological entomology, May 1979, 4(2),

p.103-110, 24 refs.
Soil microbiology, Cold tolerance. Taiga, Supercool-

Ing.

The objectives of the present study were to determine the degree of cold tolerance as exemplified by individual supertooling points, of prominent species of soil and litter dwelling microarthropods in a forest habitat in central Aluska, and to examine the effects of body water content, season and hence environmental temperature, on their ability to supercool. All arthro-

pods tested were susceptible to freezing, and the mites utilize supercooling to avoid freezing. Reference is made to studies of supercooling in antarctic terrestrial arthropods.

Three soil profiles from Elephant Island, South Shetland Islands.

O'Brien, R.M.G., et al, British Antarctic Survey. Bulletin, Mar. 1979, No.47, p.1-12, 23 refs. Romans, J.C.C., Robertson, L. Soil profiles, Continuous permafrost, Soil composition, Weathering, Elephant Island.

tion, Weathering, Liephant Island.

Three soil profiles from ice-free areas around the periphery of Elephant Island are described and discussed. All three sites are underlain by continuous permafrost and the time interval since exposure to subaerial weathering and leaching is believed to range from several hundred years to about 10,000 yr. Incipient profile-horizon differentiation is just detectable on the oldests site but all three profiles show very little evidence of mineral weathering. (Auth.)

Antarctic fast-ice food chain: observations on the interaction of amphipod *Pontogeneia antarctica* Chevreux with ice-associated micro-algae.

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Algae, Fast ice, Sea ice, Ecology.

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Algae, Fast ice, Sea ice, Ecology.

Sea ice provides a great variety of sites for micro-algal growth. During winter 1973, observations were made on the colonization of the coastal ice foot at Signy Island and on the feeding habits of Pontogeneia antarctics Chevreux associated with the micro-algal growth. Samples of amphipods and micro-algae were taken using SCUBA diving techniques. The ice-associated micro-flora started development in early June with extensive growth of the blue-green algae Phaeocystis antarctics Karsten. This was replaced, mainly by diatoms, with Navicula glacie! Van Heurck and Nitzschia curta (Van Heurck) Haale predominant. With the formation of fast ice, the amphipod migrated from its summer habitat among the weed bed of the shallow water to the coastal tide-crack area. Here a protracted hatching release started in August and both young and some adults fed on the developing micro-algal flora of the ice foot. Pontogeneia antarctica seems to be non-selective, consuming detrital, algal or crustacean material within a broad range of particle size. This omnivorous feeding, combined with protracted hatching release and migration to the ice-associated food source present during the most winters, increases the probability that young will survive in a variable environment. (Auth.)

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Research projects, Geologic structures, Geomorphology, Shores, Sea ice, Oil spills, Environmental impact.

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Sea ice, Ice conditions, rilstory. The report is comprised mostly of excerpts from ship logs (traders, whalers, and government cutters) dating back to the midnineteenth century. Nearly all excerpts contain notations about ice. Maps are included showing monthly summer and fall positions of the ice edge broken down into twenty year segments from 1860 through 1970. Maps are for the Beaufort and Chukchi Seas abutting Alaska.

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Yocom, T.G., Smart, D.R., Cohen, M.H., Benville, P.E., Jr., Ture, M.E.

Crude oil, Marine biology, Oil spills, Nutrient cycle, Environmental impact, United States—Alaska—

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Saow clearance on highways, 1968-1969. [Karayollarimizda kar mücadelesi, 1968-1969], Turkey. Karayollari Genel Mudurlug nel Mudurluk, 1969, 23p., In Turkish. DLC TD868.T87 1969 Karayollari Genel Mudurlugu, Ankara, Ge-

Snow removal, Roads, Turkey.

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Rossiter, J.R., et al, Memorial University of New-

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spills, Damage.

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Patterned ground, Frost heave, Soil creep, Soil water

migration, Animals.

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ing, Snow loads.

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snow samplers, Measuring instruments.

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Snow surveys, United States—New York—Black

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Precipitation gages, Gamma irradiation, Snow density, Snow water content.

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Heat transfer, Snowmelt, Radiation, Ablation, Heat

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Gravimetric prospecting, Sea ice, Measuring instruments.

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Lacustrine deposits, Bottom sediment, Glacial depos-

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C.C., Jr.
Ice shelves, Fallout, Ice composition, Atmospheric composition, Antarctica—Ross Ice Shelf.

composition, Antarctica—Ross [ce Shelf.]
The annual fluxes of artificial radionuclides (Pu-239, Pu-239 + 240, Am-241, C5-137, Sr-90 and H-3) from the atmosphere to the Ross Ice Shelf in Antarctica were determined from measurements in strata data by Pb-210. Recognizable sources include the U.S. tests (Mike-Ivy and Castle Hill) in the early 1950s, the U.S. R. tests in the carly 1960s, the NNAP-9A burnup of 1964 and the French and Chinese tests in the late 1960s and 1970s. There are several problems still awaiting resolution: the differences in atmospheric chemistries of fission products and of transuranics produced in weapon tests and the anomalous fluxes of Pu-238 to the ice shelf which do not appear to reflect a one-year stratosphere residence. There is no evidence for a smearing of the fallout record as a consequence of diffusion of these radionuclides in the glacial column. (Auth.)

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Meetings, Snow removal, Ice control.

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Winter maintenance, Salting, Snow removal.

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Compaction of wet snow on highways.

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Wet snow, Snow compaction, Snow removal, Salinity. The compressibility of wet snow decreases with decreasing high water content but increases with decreasing salinity. Also, the tendency for snow splashing on highways increases with decreasing salinity. These opposite effects are complicated by the fact that houd water content and salinity are not necessarily independent. The amount of liquid present can be controlled somewhat by the toad grade, and salinity is generally determined by how much salt is applied to the road surface. For different situations it may be desirable to regulate salt applications in order to achieve a maximum amount of splashing with a minimum of compaction of wet snow into ice. Here we provide a qualitative review of wet snow and suggest how an understanding of wet snow's behavior on a road surface might increase our ability to deal with snow removal problems. Wet snow, Snow compaction, Snow removal, Salinity.

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Studies on tensile strength of wet snow.
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Wet snow, Tensile properties, Adhesion, Snow accumulation.

Adhesion of ice to concrete surfaces-preliminary re-

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Ice adhesion, Concrete pavements, Ice solid interface, Tensile properties.

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Adhesive strength of contaminated ice. Yano, K., National Research Council. Transportation Research Board. Special report, 1979, No.185, International Symposium on Snow Removal and Ice Control Research, 2nd, Hanover, N.H., May 15-19, 1978. Proceedings, p.30-34, 4 refs.

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Templeton, M.K. DLC TE220.5.155 1978

Ice accretion, Mathematical models, Environment simulation, Drops (liquids), Particle size distribution,

Time-dependence enters into calculations of ice accretion on Time-dependence enters into calculations of ice accretion on objects primarily through terms dependent on the initial conditions and size and geometry of the object. A numerical technique to include the time-dependence is described here as well as simulation of complex situations where the conditions vary, for example, along a helicopter rotor blade. Some results of varying droplet sizes, velocity, and droplet distributions are presented. These indicate the general dependence of ice accretion on these parameters as well as illustrate the utility of numerical techniques in seeing how these effects can influence the rates of ice accretion for particular initial conditions.

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analysis, Transportation, Snow cover effect, Models

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Environment simulation, Environmental impact, Models, Salting, Damage.

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Snow removal, Winter maintenance, Maintenance

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Laboratory techniques, Ice accretion, Helicopters, Ice cover thickness, Temperature effects.

Ice cover thickness, Temperature effects. Experiments have been conducted to provide a basis for a computer model that simulates atmospheric ice accretion on a rotating blade. A comparison of the computer model simulation and experimental results reveals that general agreement exists within the temperature range 0 C to -25 C and the velocity range 0 to 60 m/s. Beyond 60 m/s the computer simulation over-predicts the thickness of the ice accretion at the leading edge. Below -25 C the simulation and experimental results disagree in that the simulation significantly overpredicts the thickness of the accretion at the leading edge.

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Ice crystal structure, Supercooling, Ice accretion.

34-67

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prevention.
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Snow accumulation. Blowing snow.

34-69
Icephobic coatings for highway pavements.
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Method of predicting road salt runoff in New Hampshire.

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Ice removal, Salting, Chemical properties, Runoff, Environmental impact.

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Sage, J.D., National Research Council.

Sage, J.D., National Research Council. Transporta-tion Research Board. Special report, 1979, No.185, International Symposium on Snow Removal and Ice Control Research, 2nd, Hanover, N.H., May 15-19, 1978. Proceedings, p.121-128, 12 refs. DLC TE220.5.155 1978

Snowfall, Mathematical models, Computerized simulation, Environment simulation, Snow removal, Cost analysis.

Control of snow and ice on road and communication

Control of show and ice on road and communication facilities in the Himalayas.

Malik, S.C.L., et al, National Research Council.

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Singh, L.D.
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Snow removal, Chemical ice prevention, Road maintenance, Telecommunication, Topographic effects, Wind velocity, Himalaya Mountains.

34-73

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Construction, Road maintenance, Snow removal, Topographic effects, Avalanches, Himalaya Moun-

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Snow removal, Ice control, Cost analysis, Public opinion polls.

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Havens J.H., et al, National Research Council.
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Snow strength, Ice adhesion.

On the performance of a two stage rotary snow

Shibuya, M., et al. National Research Council Transportation Research Board Special report, 1979, No. 185, International Symposium on Snow Removal and Ice Control Research, 2nd, Hanover, N.H., May 15-19, 1978. Proceedings, p 185-191, 1 ref. Kuriyama, H. DLC TE220 5.155 1978

Snow removal, Cold weather performance.

Airborne snow concentration and visibility.

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Snowfall, Visibility, Distribution, Density (number volume).

Measuring visibility in blowing snow

Schmidt, R.A., National Research Council. Trans-portation Research Board. Special report, 1979, No.185. International Symposium on Snow Removal and Ice Control Research, 2nd, Hanover, N.H., May 15-19, 1978. Proceedings, p.200-207, 15 refs. DLC TE220.5.155 1978

Visibility, Blowing snow, Measuring instruments.

Visibility in blowing snow and applications in traffic operations

Tabler, R.D., National Research Council tation Research Board. Special report, 1979, No.185, International Symposium on Snow Removal and Ice Control Research, 2nd, Hanover, N.H., May 15-19, 1978. Proceedings, p.208-214, 6 refs.

Blowing snow, Visibility, Wind velocity, Computer

resent status of the bridge ice detection program at

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Bridges, Ice detection, Radiation measuring instru-

34-84

Systems study of snow removal.

Minsk, L.D., National Research Council. Transportation Research Board. Special report, 1979, No.185, MP 1237, International Symposium on Snow Removal and Ice Control Research, 2nd, Hanover, N.H., May 15-19, 1978. Proceedings, p.220-225, 4 refs. DLC TE220.5.155 1978

Snow removal, Systems analysis.

The framework for a systems analysis of snow removal and ice control on roads is presented. Definition of the operating conditions, the principal ones of which are climate and traffic, as well as the system itself, the road net, is required. Equipment factors myolved in performing the basic functions of clearing, spreading, loading, and hauling are analyzed.

34-85

Research on an air lubricated snow plow

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DI C TE220 5 155 1978 Snow removal, Lubricants.

Study on the resistance of snowplowing and the run-

ning stability of a snow removal truck. Kaku, T., National Research Council tion Research Board. Special report, 1979, No 185, International Symposium on Snow Removal and Ice Control Research, 2nd, Hanover, N.H., May 15-19, 1978 Proceedings, p.232-239, 3 refs. DLC TE220.5.155-1978

Snow removal, Friction, Stability.

34-87

Snow removal and ice control on the Italian turnpike

network. Rocco, V., et al, National Research Council Transportation Research Board. Special report. 1979, No.185, International Symposium on Snow Removal and Ice Control Research, 2nd, Hanover, N.H., May 15-19, 1978. Proceedings, p. 240-244 Cidda, C

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Snow removal, Ice control, Winter maintenance, It-

34-88

Snow removal and ice control for ground transport channels and terminals.

Huang, E.V., National Research Council. Transportation Research Board. Special report, 1979, No.185. International Symposium on Snow Removal and Ice Control Research 2nd, Hanover, N.H., May 15-19, 1978. Proceedings, p.245-253 DLC TL220.5.155 1978

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Jumikis, A.R., National Research Council. Transpor-tation Research Board. Special report, 1979, No.185, International Symposium on Snow Removal and Ice Control Research, 2nd, Hanover, N.H., May 15-19, 1978 Proceedings, p.254-258, 16 refs. DLC TE220.5.155 1978

Snowdrifts, Blowing snow, Snow physics, Snow cover

Alternative highway deicing chemicals.

Dunn, S.A., et al, Vanonal Research Council. Transportation Research Board. Special report, 1979, No.185, International Symposium on Snow Removal cinco 15-19, 1978. Proceedings, p.261-269, 25 refs Schenk, R L

DLC TE220 5 155 1978

Ice removal, Chemical ice prevention, Road mainte-

Effect of chloride concentration on automobile stop-

ping distance. Hu, A.C.H., National Research Council. tion Research Board. Special report, 1979, No.185, International Symposium on Snow Removal and Ice Control Research, 2nd, Hanover, N.H., May 15-19. 1978. Proceedings, p.270-274 DLC TE220.5.155 1978

Ice removal, Motor vehicles, Skid resistance.

Evaluation of the use of salt brine for deicing pur-

poses. Kasinskas, M.M., National Research Council. Trans-Special report. 1979. portation Research Board. Special report. 1979, No.185, International Symposium on Snow Removal and Ice Control Research, 2nd, Hanover, N.H., May 15-19, 1978. Proceedings, p.275-281, 4 refs DLC TE220.5.155 1978

Snow removal, Chemical ice prevention, Ice removal, Brines.

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ting with calcium chloride.

Latrimore, D.R., et al. National Research Council Transportation Research Board Special report. Special report. 197 r. No 185. International Symposium on Snow Removal and Ice Control Research, 2nd, Hanover, N.H. May 15-19, 1978. Proceedings, p.282-288, 14 refs. Mossner, E.H., Nixon, J.G. DI C.TE220 5 155-1978.

Chemical ice prevention, Snow removal, Salting, Ice melting.

Detachment of ice from surfaces by application of

high intensity light.
Mouat, T.W., et al. National Research Council Transportation Research Board Special report, 1979, No 185, International Symposium on Snow Removal and Ice Control Research, 2nd, Hanover, N.H., May 15-19, 1978 Proceedings, p.289-292, 5 refs. Saunders, R.L. DIC TE220 5 155-1978

Ice removal, Light effects, Ice solid interface.

34-95 Computer simulation of urban snow removal. Tucker, W.B., et al. National Research Council. Transportation Research Board. Special report. 1979, No.185, MP 1238, International Symposium on Snow Removal and Ice Control Research, 2nd, Hanover. N.H., May 15-19, 1978. Proceedings, p.293-302, 11 refs

Clohan, G.M. D1 C TE220.5 155 1978

Snow removal, Computerized simulation, Environment simulation.

ment simulation.

A general computer model to simulate urban snow removal has been developed. One part of the package includes several programs which assist in the routing of snow removal vehicles using computer graphics. The primary element, however, is a program which, once specific vehicle routes are input, allows the simulation of any particular snow removal scenario. Parameters that can be varied include both truck and snowstorm characteristics. This simulation program is tested using truck routes and storm data from Newington. Connecticut. Results indicate that the simulation predicts plowing times quite reasonably.

Countermeasures against snow accretion and icing on radomes

Suzuki, M., et al. National Research Council. Trans-No 185, International Symposium on Snow Removal and Ice Control Research, 2nd, Hanover, N.H., May 15-19, 1978 Proceedings, p.303-307, 4 refs. Sha, K., Tsukawaki, T. DLC TE220.5.155 1978

Snow accumulation, Ice accretion, Radomes, Countermeasures.

Protection methods for railway switches in snow con-

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Snow cover effect, Icing, Railroad tracks.

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Snow removal, Ice removal, United Kingdom.

Snow collection by possible high speed guidway sections.

Ringer, T.R., et al, National Research Council Transportation Research Board Special report, 1979, No.185, International Symposium on Snow Re-moval and Ice Control Research, 2nd, Hanover, N.H., May 15-19, 1978. Proc Price, R.D DLC TE220.5.155 1978 Proceedings, p.318-327, 5 refs.

Snow accumulation, Air cushion vehicles, Guideways.

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Ice accretion, Countermeasures, Guideways.

34-101

All-weather protection for AGT guideways and stations.

Stevens, R.D., et al, National Research Council. Transportation Research Board. Special report, 1979, No.185, International Symposium on Snow Removal and Ice Control Research, 2nd, Hanover, N.H., May 15-19, 1978. Proceedings, p.337-342.

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Cold weather operation, Icing, Countermeasures, Guideways.

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Morgan, P.H., National Research Council. Transportation Research Board. Special report, 1979, No.185, International Symposium on Snow Removal and Ice Control Research, 2nd, Hanover, N.H., May 15-19, 1978. Proceedings, p.343-349, 5 refs. DLC TE220.5.155 1978

Snow removal, Ice control, Cold weather operation,

Guideways.

34-103 Trace element content of Greenland snows along an east-west transect.

Boutron, C., Geochimica et cosmochimica acta, Aug. 1979, 43(8), p.1253-1258, 24 refs.

Snow composition, Snow impurities, Aerosols, Chemical composition, Greenland.

Successions of lithophile lichen communities in the northern Ural highlands. (Suktsessii soobshchestv litofil'nykh lishalnikov v vysokogor'iakh Severnogo Urala<sub>1</sub>.

Magomedova, M.A., Ekologiia, May-June 1979, No.3, p.29-38, In Russian. 10 refs.

Alpine tundra, Lichens, Plant ecology, Ecosystems.

34-105
Pinus sibirica as an indicator of environmental conditions in the Khamar-Daban Mountains and Tunkinskiye Gol'tsy. [Kedr sibirskil—indikator uslovil mestoobitaniia na Khamar-Dabane i Tunkinskikh Gol'tsakhı

Tarakanov, A.G., Ekologiia, May-June 1979, No.3,

p.80-83, In Russian. 7 refs.
Alpine landscapes, Forest soils, Forest ecosystems, Geocryology, Solifluction, Snow cover distribution, Slope orientation.

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Nauchnaia konferentsiia Problemy gliatsiologii Altaia, Tomsk, 1973, Tomsk, Universitet, 1973, 259p., In Russian. For selected papers see 34-107 through 34-114. Refs. passim. Kortusov, M.P., ed. DLC GB2556.A57N38

Mountain glaciers, Radio echo soundings, Glacial hy-drology, Glacier ablation, Albedo, Snow cover distribution, Snow recrystallization, Glacier alimentation, ice sublimation, Snow evaporation, Periglacial pro-

Causes of changes in glacler melting. (O nekotorykh prichinakh kolebaniia taianiia lednikov).
Drozdov, O.A., et al, Nauchnaia konferentsiia Problemy gliatsiologii Altaia, Tomsk, 1973. Materialy (Scientific conference on Altai glaciology problems, Tomsk, 1973. Proceedings) edited by M.P. Kortusov, Tomsk, Universitet, 1973. p.21-27, In Russian. 17 refs.

Mosolova, G.I. DLC GB2556.A57N38

Solar radiation, Glacier ablation, Albedo, Climatic factors, Glacier oscillation, Glacier ice, Ice melting.

34-108

Structure of Altai snow cover. [Struktura snezhnoi

tolshchi Altaiaj, Reviakin, V.S., et al, Nauchnaia konferentsiia Problemy gliatsiologii Altaia, Tomsk, 1973. Materialy (Scientific conference on Altai glaciology problems, Tomsk, 1973. Proceedings) edited by M.P. Kortusov Tomsk, Universitet, 1973, p.28-36, In Russian. 7 refs.

Varganova, M.S. DLC GB2556.A57N38

Snow cover distribution, Snow accumulation, Snowdrifts. Snow cover structure. Snow recrystallization. Snow stratigraphy.

34-109

Use of tethered radiosondes in the Aktru mountain

Use of tethered radiosondes in the Aktru mountain glacier basin. [Primenenie priviaznykh radiozondov v gorno-lednikovom basselne Aktru],
Slutskit, V.I., et al, Nauchnaia konferentsiia Problemy gliatsiologii Altaia, Tomsk, 1973. Materialy (Scientific conference on Altai glaciology problems, Tomsk, 1973. Proceedings) edited by M.P. Kortusov, Tomsk, Universitet, 1973, p.82-86, In Russian.
Sevast'ianov, V.V., Snegirev, [U.B. DLC GB2556.A57N38
Mountain glaciers. Glacial meteorology. Balloons.

Mountain glaciers, Glacial meteorology, Balloons, Measuring instruments, Design.

Glaciological and climatological significance of abla-

Glaciological and climatological significance of ablation periods. [Gliatsiologicheskoe i klimatologicheskoe znachenie abliatsionnogo perioda],
Oletnik, I.IA., Nauchnaia konferentsiia Problemy gliatsiologii Altaia, Tomsk, 1973. Materialy (Scientific conference on Altai glaciology problems, Tomsk, 1973. Proceedings) edited by M.P. Kortusov, Tomsk, Universitet, 1973, p.87-92, ln Russian.
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Ice sublimation, Glacier ablation, Snow evaporation, Mountain glaciers, Ice melting, Mass balance.

Accuracy of using floats in measuring water discharge of small mountain rivers. [Issledovanie tochnosti iz-mereniia raskhodov vody poplavkami na malykh gor-

nykh rekakhı, Chirkova, A.A., et al, Nauchnaia konferentsiia Problemy gliatsiologii Altaia, Tomsk, 1973. Materialy (Scientific conference on Altai glaciology problems, Tomsk, 1973. Proceedings) edited by M.P. Kortusov, Tomsk, Universitet, 1973, p.115-128, In Russian. 12 refs

Shantykova, L.N., Glazyrin, G.E. DLC GB2556.A57N38

Glacial hydrology, Glacial rivers, Drainage, Measuring instruments, Accuracy.

Periglacial vegetation of the Katun Range. [K izucheniiu perigliatsial'nol rastitel'nosti Katunskogo

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Alpine landscapes, Periglacial processes.

Permafrost and paleogeographic problems of north-

rermatrost and paleogeographic problems of north-western Siberia. [Problemy paleogeografii severa Zapadnol Sibiri i mnogoletniaia merzlota, Zemtsov, A.A., Nauchnaia konferentsiia Problemy gliatsiologii Altaia. Tomsk, 1973. Materialy (Scien-tific conference on Altai glaciology problems, Tomsk, 1973. Proceedings) edited by M.P. Kortusov, Tomsk, Universitet, 1973, p.157-163, In Russian. 15 refs. DLC GB2556.A57N38

Permafrost origin, Permafrost distribution, Perma-frost thickness, Paleoecology, Paleoclimatology.

Meteorological visibility range of 4 km and less at airports of West Siberia. [Meteorologicheskaia dal'nost' vidimosti 4 km i menee v aeroportakh Zapadnot

Martem'ianova, E.S. Nauchnaia konferentsiia Problemy gliatsiologii Altaia, Tomsk, 1973. Materialy (Scientific conference on Altai glaciology problems, Tomsk, 1973. Proceedings) edited by M.P. Kortusov, Tomsk, Universitet, 1973, p.243-250, In Russian. 13

DLC GB2556.A57N38
Airports, Ice fog, Visibility, Forecasting.

34-115

34-115

Economic peculiarities of organizing raw material bases for Yakutian industry. (Ekonomicheskie osobennosti podgotovki syr'evoi bazy promyshlennosti IAkutskoi ASSR), Kirillin, A.D., ed, Yakutsk, Yakut filial SO AN SSSR, 1977, 121p., In Russian. For selected papers see 34-116 through 34-120.

Kritovkarkin, A.L. Poissay, I.L. ed.

Krivoshapkin, A.I., Poiseev, I.I., ed. DLC TN110.Y3E36

Gas pipelines, Permafrost beneath disactures, Permafrost control, Gas production, Liquefied gases, Storage, Geological surveys, Drilling, Cost analysis.

Methods of determining the economic effectiveness of geological surveys. [O metodakh opredeleniia ekonomicheskol effektivnosti geologorazvedochnykh

Andreev, M.G., et al, Ekonomicheskie osobennosti Andreev, M.G., et al, Ekonomicheskie osobennosti podgotovki syr'evol bazy promyshlennosti IAkutskol ASSR (Economic peculiarities of organizing raw material bases for Yakutian industry) edited by A.D. Kirillin, A.I. Krivoshapkin and I.I. Poiseev, Yakutsk, Yakut, filial SO AN SSSR, 1977, p.3-10, In Russian. Kirillin, A.D., Krivoshapkin, A.I. DLC TN110,Y3E36

Geological surveys, Permafrost distribution, Cost

Improving the organization of geological surveys.

Improving the organization of geological surveys. [Voprosy sovershenstvovaniia organizatsii geologorazvedochnykh rabot, Ermolaev, K.M., Ekonomicheskie osobennosti podgotovki syr'evol bazy promyshlennosti [Akutskol ASSR (Economic peculiarities of organizing rawmaterial bases for Yakutian industry) edited by A.D. Kirillin, A.I. Krivoshapkin and I.I. Poiseev, Yakutsk, Yakut. filiai SO AN SSSR, 1977, p. 19-26. In Russian. Geological surveys, Permafrost distribution, Cost analysis. analysis.

34-118

Cost of natural gas production in the Yakut ASSR.

Cost of natural gas production in the Yakut ASSK. [Nekotorye voprosy ekonomiki dobychi prirodnogo gaza v IAkutskol ASSR].

Popova, V.K., Ekonomicheskie osobennosti podgotovki syr'evol bazy promyshlennosti IAkutskol ASSR (Economic peculiarities of organizing raw material bases for Yakutian industry) edited by A.D. Kirillin, A.I. Krivoshapkin and I.I. Poiseev, Yakutsk, Yakut. filial SO AN SSSR, 1977, p.86-92, In Russian. Gas production, Natural gas, Gas pipelines, Perma-frost beneath structures, Drilling, Cost analysis.

Possibility of increasing gas supply to Central Yakutia. (O vozmozhnosti rasshireniia gazosnabz-heniia tsentral'nykh ralonov lAkutii<sub>3</sub>, Emel'ianov, V.G., Ekonomicheskie osobennosti podg-

otovki syr'evol bazy promyshlennosti IAkutskol ASSR (Economic peculiarities of organizing raw material bases for Yakutian industry) edited by A.D. Kirillin, A.I. Krivoshapkin and I.I. Poiseev, Yakutsk, Yakut. filial SO AN SSSR, 1977, p. 93-98, In Russian.

Gas production, Gas pipelines, Permafrost beneath structures, Liquefied gases, Storage.

Environmental protection problems in the construc-

Environmental protection problems in the construction of gas industry objects. (Voprosy okhrany okruzhaiushchel sredy pri stroitel'stve ob'ektov gazodobyvaiushchel promyshlennosti).

Poiseev, I.I., et al, Ekonomicheskie osobennosti podgotovki syr'evol bazy promyshlennosti lAkutskol ASSR (Economic peculiarities of organizing raw material bases for Yakutian industry) edited by A.D. Kirillin, A.I. Krivoshapkin and I.I. Poiseev, Yakutsk, Yakut. filial SO AN SSSR, 1977, p.99-104, In Russian. Empl'ianov V. G. Emel'ianov, V.G. Gas pipelines, Permafrost beneath structures, Perma-

frost control. Environmental protection

Certain characteristics of the atmospheric surface laver above snow.

Elagina, L.G., et al, Akademiia nauk SSSR. Izvestiya. Atmospheric and oceanic physics. Apr. 1979, 14(9), p.652-655, Translated from Fizika atmosfery i

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Snow cover effect, Air temperature, Boundary layer, Wind velocity, Humidity, Measuring instruments.

Wilder of the State of Control

Measuring the coefficients of directional light scatter-

ing in droplet and crystalline cloud media.
Paylova, L.N., Akademna nauk SSSR — Izvestiya.
Atmospheric and oceanic physics, Apr. 1979, 14(9), p.698-701, Translated from Fizika atmosfery i okeana. 10 cefs

Cloud droplets, Ice crystals, Light scattering, Meas-

Thermal equilibrium in the upper layer of the earth's crust. (O teplovom ravnovesii v verkhnem sloe zemnol

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Earth crust, Heat balance, Boundary layer, Air tem-perature, Heat transfer, Solar radiation, Snow cover effect, Permafrost origin.

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34-132 Solar and net radiation over snow

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Ice drift in the presence of ice hummocks.

Gorbunov, IU.A., et al, U.S. Army Cold Regions Research and Engineering Laboratory, July 1979, TL 718, 15p., ADB-040 348, For Russian original see 33-1510. 5 refs.
Losey, S.M., Timokhov, L.A.

Sea ice, Drift, Ice islands, Hummocks.

Patterns of sea are flow were surveyed aerally. The results were used to determine the effects of grounded are islands (known as "ice hummocks") on ice flow. Ice hummocks were found to change the direction and rate of flow in the surrounding area. "Straits" between ice hummocks were found to affect flow locally, but the density of ice hummocks in a given area was found to be more important on a large scale. Ice hummocks are found to have significant effects on the flow of sea new found to be more important on a large scale. Lee hummocks are found to have significant effects on the flow of sea ice, especially on velocity of flow

Construction and performance of membrane encapsulated soil layers in Alaska.

Smith, N. U.S. Army Cold Regions Research and Engineering Laboratory June 1979 CR 79-11, 27p. ADA-073 531, 17 refs.
Soil freezing, Cold weather tests, Frost protection, 531 water, Waterprooning, Trost neares.

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In 1973 two membrane encapsulated soil layer (MESL) test sections were constructed into existing gravel surfaced roads at Elimendorf AFB and at Ft. Wainwright in Anchorage and Fairbanks, Alaska, respectively—The Elimendorf AFB MESL contains a silty clay soil and the Ft. Wainwright MESL contains a nonplastic silt—Both sections were constructed at soil moisture contents of approximately 2% to 3% below optimum for the CE-12 compactive effort—There were no indications of soil moisture migration during freezing in either test section, and after-thaw field California Bearing Ratio values were nearly equal to values measured before freezing—There is growing evidence of a slight increase in the overall soil moisture content in the Elimendorf AFB MESL, possibly from moisture entering through the single layer polyethylene sidewalls which were not treated with asphalt emulsion. There is good evidence that the membrane of the same section might have received damage during a soil sampling operation which allowed localized moisture infiltration. A two-layer polyethylene membrane used in the Ft. Wainwright MESL is considered a more positive moisting the same section might are received damage during a soil sampling operation which allowed localized moisting through the same section might have received damage during a soil sampling operation which allowed localized moisting the Ft. Wainwright MESL is considered a more positive moisting through the same section might have received damage during a soil sampling operation which allowed localized moisting through the same section might have received damage during a soil sampling through the same section might have received damage during a soil sampling through the same section might have received damage during a soil sampling through the same section might have received damage during a soil sampling through the same section might have received damage during a soil sampling through the same section might have received damage during a soil sam ture infiltration. A two-layer polyethylene membrane used in the Ft Wainwright MESL is considered a more positive mois-ture barner than the single sheet and a justifiable added cost for permanent construction.

Engineer design test of Cold Regions Research and Engineering Laboratory (CRREL) shelter.

Dollahite, M.C., Fort Greely, Alaska, Cold Regions Test Center, 1978, 97p., ADB-031 528L, Distribution limited to U.S. Government agencies only.

Cold weather performance, Low temperature tests,

Portable shelters, Utilities, Safety. 34-136

Freezing problems associated with spray irrigation of

wastewater during the winter.
Bouzoun, J.R., U.S. Army Cold Regions Research and Engineering Laboratory. May 1979, SR 79-12, 12p., ADA-070 031, 5 refs.

Waste treatment, Water treatment, Waste disposal, Irrigation, Ice prevention.

Irrigation, Ice prevention.

During the winters of 1975-76, 1976-77 and 1977-78, biologically treated wastewater was applied to land in West Dover, Vermont. The wastewater was applied using the spray irrigation method at ambient temperatures as low as OF. During the first winter freezing was a major roblem. Modified gard notzles that were less susceptible to freezing were installed at both the low points and high points of the aboveground spray laterals. During the second and third winters, ice buildup nozzles, caused serious damage to the pipes. Many man-hours

were required to cut the ice repeatedly from the laterals. As an experiment to alleviate the problem, several 30- to 36-in risers were installed at an angle of approximately 30 degrees from the vertical on two of the spray laterals during the winter of 1977-78. They functioned well enough to warrant future installation on the entire system of spray laterals.

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Drainage network analysis of a subarctic watershed. Caribou-Poker Creeks research watershed, interior Alaska.

Bredthauer, S.R., et al. U.S. Army Cold Regions Re-79-19, 9p , ADA-073 595, 14 refs.

Hoch, D.

Watersheds, Drainage, Slope processes, Permafrost. Watersheds, Irrainage, Slope processes, Permafrost. A Strahler stream order analysis and an exterior link length distribution analysis were made of the Carbou-Poker Creeks Research Watershed near Fairbanks, Alaska. The drainage network map used for analysis was produced using a 12250 scale aerial photograph mosaic. Low drainage densities characterize the basins. Bifurcation ratios indicate that the overall drainage network is not dominated by strong geologic controls Statistical analysis indicates that bifurcating source links and tributary source links on not belong to the same length population, a characteristic shared by watersheds in other climatic regions of the world. Additional analysis indicates that exterior links originating on permafrost slopes tend to be shorter terior links originating on permafrost slopes tend to be short than those originating on non-permafrost, well-drained slope

Infrared thermography of buildings: 1977 Coast Guard survey.

Marshall, S.J., U.S. Army Cold Regions Research and Engineering Laboratory, June 1979, SR 79-20, 40p., ADA-073 596, 9 refs.

Buildings, Heat loss, Infrared photography, Win-

dows.

An IRTB (infrared thermography of buildings) field survey, producing 6.31 thermograms, 12° photographs, and weather data, was conducted during a 14-day study of 10 Coast Guard stations in Maine, New Hampshire and Massachusetts. This report discusses how the survey was initiated and performed with emphasis on details for the benefit of the reader wishing to plan a survey. One hundred twenty selected thermograms and photographs in this report illustrate many types of heat loss and compare thermally ineffective doors and windows with units designated as standards for thermal effectiveness. Radiator heat leakage through walls, motified moisture patterns on piack walls, infiliration patterns on glass, and poorly covered openings are illustrated. Thermograms of severe heat losses through glass doors, glass transoms, and glass wall panels are also included, and several solutions for individual heat loss problems, such as fiberglass garage doors and percelant misulated panels, are suggested. Unanticipated survey problems, such as fiberglass garage doors and percelant misulated panels, are suggested. Unanticipated survey problems, such as difficulties in obtaining photographs to compare with

vey techniques for inclement weather, are also discussed

Application of heat pipes on the Trans-Alaska Pipe-

Heuer, C.E., U.S. Army Cold Regions Research and Engineering Laboratory, July 1979, SR 79-26, 27p., ADA-073 597, 26 refs.

Pipelines, Heat pipes, Heat transfer.

Pipelines, Heat pipes, Heat transfer.

The application of heat pipes on the Trans-Alaska Pipeline is reviewed. The subjects addressed include the general functioning of a heat pipe, the specific heat pipe design used, the different situations where heat pipes were employed, the methods used to develop the heat pipes design, the methods used to monitor the operating heat pipes, and the performance of the heat pipes. The discussion is qualitative in nature. Quantitative information is largely omitted to allow coverage of a broad area and because it may be considered proprietary. Nevertheless, the information presented here should give a good appreciation of the quality and complexity of the heat pipe design. The information should also be useful in developing heat pipes for use in other cold regions applications. for use in other cold regions applications

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Liquefied gases, Natural gas, Manufacturing, Refrigeration, Gas production.

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Snow removal. Electric heating.

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Hydraulically operated front and rear wing hangers

for snow plows.
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Snow removal, Hydraulic structures.

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Thornton, D.E., Ross, S.L.
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Remote sensing, Pollution, Countermeasures, Ice conditions, Beaufort Sea.

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Thermal effects, Stress strain diagrams, Deformation,
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Organic-mineral admixtures for increasing strength and frost resistance of reinforced concretes in the Kola Peninsula. [Primenenie organo-mineral'noi dobayki (OMD) dlia povysheniia prochnosti i moro-zostolkosti zhelezobetonnykh izdelii v usloviiakh Kol'-

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Silicate cements and dense concretes on a base of nepheline slag and phosphorite residues. [Silikatnoe viazhushchee i plotnye betony na baze nefelinovogo shlama i fosforitovykh khvostov<sub>1</sub>.

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Ice breaking, Noise (sound), Vibration, Sea ice, Ice-breakers, Frequency analysis.

34-195
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bykh gruntakh<sub>j</sub>.

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Concrete structures, Power line supports, Swamps,

Anchors.

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Cellular plastics.

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loviiakhj. Kogan, E.A., et al. *Energeticheskoe stroitel'stvo*, 1979, No.6, p.34-36, In Russian. 3 refs.

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Winter concreting, Concrete structures, Dams, Concrete placing, Hydraulic structures.

Cement-silicate solutions used in building grout curtains under complex hydrogeological conditions. [Tsementno-silikatnye rastvory dlia sozdanija protivofil'tratsionnykh zaves v slozhnykh gidrogeologicheskikh usloviiakh). Shugalel, R.T., et al, Russia. Ministerstvo vysshego i

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34-200

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114.

Sea ice, Ice salinity, Climatology, Icebergs.

Written for the general reader, this article points out the tremendous importance of antarctic and arctic ice. Icebergs are discussed, especially as a potential source of freshwater, and the differences between arctic and antarctic icebergs explained Photographs compare the jagged and tabular types of bergs More general and far-reaching differences in the two polar regions are also contrasted and their influence on world climate tressed. The propose by which sen jice loss salt as it freezes. stressed. The process by which sea ice loses salt as it freezes explains the relatively low salinity of ice formed from sea water.

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Bacteria, Nutrient cycle, Tundra, Ecosystems, Water temperature, Polar regions, Microbiology, United States—Alaska—Barrow.

34-202

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Satellite data.

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Tundra, Animals, Winter, LANDSAT, Lichens, Map-

ping, Computer applications.

34.203

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glaciers. Mills, H.H., Seattle, University of Washington, 1975. 156p., University Microfilms order No.76-17,567. Ph D thesis. For abstract see Dissertation abstracts international Sec B, Aug. 1976, p.662.

Mountain glaciers, Sediments, Moraines, Glacial deposits, Alpine glaciation, Glacier flow.

34-204

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Transportation.

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Smallys, A.A.

Air cushion vehicles, Protective coatings, Abrasion,
Low temperature tests, Tensile properties, Temperature effects.

34-207

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Associate Committee on Air Cushion Technology. Technical report, Jan. 1977, No.2/77, p.66-73. River crossings, Ice conditions, Air cushion vehicles, River ice.

S4-208
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Ball, M.A., National Research Council, Canada. Associate Committee on Air Cushion Technology.
Technical report, Jan. 1977, No.2/77, p.105-132, 6

Ice cover thickness, Air cushion vehicies, Ice breaking, Ice cover strength, Ship icing, Ice navigation, Tests, Wave propagation.

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Ice breaking, Air cushion vehicles, Ice cover strength, Wave propagation, Water waves, Compressive properties, Velocity, Tests.

Economic and social aspects of icebreaking on the St.

Lawrence seaway. Hall, T.N., National Research Council, Canada. sociate Committee on Air Cushion Technology. Technical report, Jan. 1977, No.2/77, p.141-146. Ice breaking, Air cushion vehicles, Trafficability, Eco34-211

Yukon ferry operation. Ireland, JE, National Research Council, Canada Associate Committee on Air Cushion Technology Technical report, Jan. 1977, No.2, 77, p. 176-179. Air cushion vehicles, River crossings, Ice conditions, Transportation.

34-212

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Jagannatha Rao, P., Indian Roads Congress. Journal.

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Frost heave, Frost action, Roadbeds, Soil freezing, Ice lenses, Permeability, Soil moisture migration, Thermal factors, Salinity, Foundations.

34-213

Studies of physico-technical problems of the North (rock mechanics and thermal properties, materials technology). ¿Issledovaniia po fiziko-tekhnicheskim problemam Severa (Gornaia mekhanika i teplofizika,

materialovedenie).

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DLC TN109.177

Mining, Coal, Placer mining, Permafrost thermal properties, Mine shafts, Underground facilities, Heat transfer, Drills, Frozen rock temperature, Creep, Power line icing, Radio communication, Permafrost physics, Wave propagation, Radio waves, Ventilation.

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Kirzhner, F.M. DLC TN 109-177

Mining, Coal, Ground ice, Permafrost structure, Ex-

34-215

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cheskim problemam Severa (Gornaia mekhanika i te-plofizika, materialovedenije) (Studies of physico-technical problems of the North (rock mechanics and thermal properties, materials technology)) edited by E.A. Bondarev, Yakutsk, lAkutskit filial SO AN SSSR, 1975, p.9-16, In Russian. 2 refs.

Galkin, A.F. DLC TN109.177

Placer mining, Frozen rock temperature, Thermal regime, Mine shafts, Ventilation.

Testing plastic thermoinsulative covers in placer mines. (Nekotorye rezul'taty ispytani) plenochnol te-

ploizoliatsii v rossypnykh shakhtakhj. Sherstov, V.A., et al, Issledovaniia po fiziko-tekhni-cheskim problemam Severa (Gornaia mekhanika i te-plofizika, materialovedeniie) (Studies of physico-technical problems of the North (rock mechanics and thernical problems of the North (rock mechanics and thermal properties, materials technology)) edited by E.A.
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Enkashev, M.M.
DLC TN109.177
Placer mining, Permafrost thermal properties, Permafrost control, Thermal insulation Plastics, Ventilation

34-217

Heat transfer between underground structures and surrounding frozen grounds. (Teploobmen podzemnogo sooruzheriia s okruzhaiushchim merzlym grun-

Kapitonova, T.A., et al. Issledovanija po fiziko-tekhnicheskim problemam Severa (Gornaia mekhanika i teplofizika, materialovedeniie) (Studies of physico-technicai problems of the North (rock mechanics and thermal properties, materials technology)) edited by E.A.
Bondarev, Yakutsk, IAkutskit filial SO AN SSSR,
1975, p.22-29, In Russian. 2 refs.
Popov, F.S.
DLC TN109.177

Placer mining, Permafrost, Mine shafts, Thermal regime, Ventilation, Heat transfer, Design.

34-218

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Mining, Radio communication, Permafrost physics, Radio waves, Wave propagation.

34-219

Results of testing new diamond drilling bits in Southern Yakutia. (O pervykh rezul'tatakh ispytanii novykh burovykh almaznykh koronok v uslovijakh IUzhnoj

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Mining, Permafrost, Drilling, Drills, Diamond bits.

34-220

Axisymmetric freezing and creep of water-saturated rocks, rOsesimmetrichnoe smerzanie i polzuchest vlagonasyshchennykh porodj, Dubina, M.M., et al. Issledovanjia po fiziko-tekhni-

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Mining, Mine shafts, Ground thawing, Frost penetration, Frozen ground strength, Ground ice, Permafrost heat transfer, Permafrost mass transfer, Analysis

Numerical solution of problems of soil creep with phase transformations. [Chislennoe reshenie zadachi polzuchesti s fazovym perekhodom]. Lozovskil, A.S., Issledovaniia po fiziko-tekhnicheskim

problemam Severa (Gornaia mekhanika i teplofizika. materialovedeniie) (Studies of physico-technical problems of the North (rock mechanics and thermal properties, materials technology)) edited by E.A. Bondarev, Yakutsk, IAkutskii filial SO AN SSSR, 1975, p.49-53, In Russian. 7 refs. DLC TN109.177

Mining, Mine shafts, Walls, Ground thawing, Frozen ground strength, Permafrost, Analysis (mathemat-

Evaluating the influence of natural conditions on temperature regime of permafrost surrounding mining excavations. Otsenka vliianiia estestvennykh uslovit na temperaturnyi rezhim okruzhaiushchikh vyrabotku

mnogoletnemerzlykh gornykh porody. Fedorov, F.M., Issledovanii po fiziko-tekhnicheskim problemam Severa (Gornata mekhanika i teplofizika, materialovedeniie) (Studies of physico-technical prob-lems of the North (rock mechanics and thermal properties, materials technology)) edited by F.A. Bondarev, Yakutsk, !Akutskii filial SO AN SSSR, 1975, p.54-61, In Russian. 3 refs. DLC TN109.177

Mine shafts, Permafrost, Walls, Heat transfer, Mass transfer, Frozen rock temperatura Permairosi ti mal properties.

Influence of mining conditions on temperature regime of permafrost around separate excavations. (O vinami uslovit ekspluatatsii na temperaturnyi rezhim gornykh porod vokrug odinochnoi vyrabotki, proidennoi v

mnogoletnei merziotej. Fedorov, F.M., Issledovanna po fiziko-tekhnicheskim problemam Severa (Gornaia mekhanika i teplofizika, materialovedeniie) (Studies of physico-technical probrems of the North (rock mechanics and thermal properties, materials technology)) edited by E.A. Bondarev, Yakutski, IAkutskii filial SO AN SSSR, 1975, p.62-70. In Russian 4 refs.

DLC TN109 177 lems of the North (rock mechanics and thermal prop-

Mining, Mine shafts, Permafrost thermal properties, Heat transfer, Heat loss.

34-224

Thermal regime of permafrost beneath structures with councations on fill. [Teploy of rezhim merziyki

porod pod sooruzhemem na podsypkej. Maľkov, R. K., et al, Issledovannia po fiziko-tekhnicheskim problemam Severa (Gornaia mckhanika i teplofizika, materialovedeniie) (Studies of physico-technical problems of the North trock mechanics and thermal properties, materials technology)) edited by I Bondarev, Yakutsk, IAkutskii filial SO AN SSSR, 1975, p.71-76, In Russian. 6 refs Kurilko, A.S., Popkov, A.A. DLC 18109177

Buildings, Foundations, Rock fills, Peribeneath structures, Thermal regime, Models. Permafrost

34-225

Solution of a problem of freezing of an unlimited slab of fine grained material, allowing for moisture migra-tion. (Reshente zadachi o promerzanii neogranichennot plastiny dispersnogo materiala s uchetom migratsii

Kurilko, A.S., et al, Issledovaniia po fiziko-tekhniches kim problemam Severa (Gornaia mekhanika i teplofizika, materialovedeniie) (Studies of physico-technical problems of the North (rock mechanics and thermal properties, materials technology)) edited by E.A. Bondares, Yakutsk, J.Akutskii filial SO AN SSSR, 1975, p.77-82, In Russian. 2 refs. Kozhevnikov, N.N. DLC TN109.177

Frozen fines, Frost penetration, Soil water migration, Phase transformations, Analysis (mathematics).

Reestablishment of temperature field in rocks around excavations after warm air flow is discontinued. [O vosstanovlenii temperaturnogo polia porod vokrug vyrabotok posle prekrashcheniia podachi teplogo voz-

dukhaj. Mal'kov, IU.K., et al, Issledovanija po fiziko-tekhnicheskim problemam Severa (Gornaia mekhanika i teplofizika, materialovedeniie) (Studies of physico-technical problems of the North (rock mechanics and thermal properties, materials technology)) edited by E. Bondarev, Yakutsk, IAkutskii filial SO AN SSSR. 1975, p.83-89, In Russian. 4 refs.

Naumova, V.S. DLC TN109.177

Mining, Mine shafts, Frozen rock temperature, Ventilation, Models, Permafrost control.

34-227

Similarity criterion for freezing processes in dis-

persed media. ¡Ob odnom kriterii podobiia dlia prot-sessov promerzaniia v dispersnykh sredakh]. Kozhevnikov, N.N., Issledovaniia po fiziko-tekhni-cheskim problemam Severa (Gornaia mekhanika i teplofizika, materialovedeniie) (Studies of physico-technical problems of the North (rock mechanics and thermal properties, materials technology)) edited by E.A. Bondarev, Yakutsk, IAkutskit filial SO AN SSSR, 1975, p.90-93, In Russian. 1 ref. DLC TN109.177

Frozen fines, Frost penetration, Mathematical models, Phase transformations, Heat transfer, Mass transfer.

Heat conductivity of frozen water solutions of gases [Teploprovodnost zamorozhennykh vodnykh rast-

votov gazovj. Groisman, A.G., et al, Issledovanna po fiziko-tekhnicheskim problemam Severa (Gornaia mekhanika i teplofizika, materialovedeniie) (Studies of physico-techmeal problems of the North trock mechanics and thermal properties, materials technology); edited by Bondarev, Yakutski, IAkutskii filial SO AN SSSR, 1975, p.103-107. In Russian. 1 ref

Hoeva, M.G. DLC TN109 177

Gases, Hydrates, Solutions, Ice, Thermal conductivity.

14 229

Thermophysical characteristics of moisture and gassaturated sandstones at naturally low temperatures. (Teplofizicheskie kharakteristiki ylago- i gazonasyshchennykh peschanikov pri estestvenno nizkikh tem-

peraturakh). cheskim problemam Severa (Gornaia mekhanika i teplofizika, materialovedenije) (Studies of physico-technical problems of the North (rock mechanics and thermal properties, materials technology)) edited by E.A. Bondarev, Yakutsk, IAkutskii filial SO AN SSSR, 1975, p.106-107, ln Russian. 1 ref. Platonova, N.N. DLC TN109 177

Sands Soil water, Natural gas, Frost penetration, Thermal regime, Physical properties.

New method of forecasting ice-hoarfrost deposits on power lines. (Novy) sposob prognozirovaniia gololed-no-izmorozevykh otlozhenii na liniiakh elektropereda-

Kolmogorova, I.M., et al, Issledovaniia po fiziko-tekhnicheskim problemam Severa (Gornaia mekhanika i teplofizika, materialovedeniie) (Studies of physicotechnical problems of the North (rock mechanics and thermal properties, materials technology)) edited by E.A. Bondarev, Yakutsk, IAkutskii filial SO AN SSSR, 1975, p.108-113, In Russian. 4 refs.

Sionov, LA. DLC TN 109 177

Power line icing. Ice forecasting.

Reliability of the Yakutsk gas distribution system. [K voprosu nadezhnosti gazoraspredelitel'nol sistemy

IAkutska<sub>1</sub>, L'vova, Z.M., Issledovanija po fiziko-tekhnicheskim problemam Severa (Gornaia mekhanika i teolofizika. materialovedeniie) (Studies of physico-technical problems of the North (rock mechanics and thermal properties, materials technology)) edited by E.A. Bondarev, Yakutski, IAkutskii filial SO AN SSSR, 1975. p.114-119, In Russian. 3 refs. DLC TN 109.177

Gas pipelines, Permafrost beneath structures, Pipeline freezing, Hydrates.

Resistance of ZOKhGSNA and ZOKhGSA steels at low temperatures. ¡K voprosu o treshchinostołkosti stalet ZOKhGSNA i ZOKhGSA pri nizkikh tem-

peraturakhj. Vasil'ev, M.M., et al. Issledovanija po fiziko-tekhnicheskim problemam Severa (Gornaia mekhanika i teplofizika, materialovedeniie) (Studies of physico-technical problems of the North (rock mechanics and thermean properties, materials technology)) edited by E.A. Bondarev, Yakutsk, IAkutskii filial SO AN SSSR, 1975, p. 120-124, In Russian. 4 refs. Guliaev, V.P., Sosin, T.S. DLC TN109.177

Steel structures, Steels, Brittleness, Cracking (fracturing), Crack propagation, Cold weather perform-

34-233

Testing weldability of metals at subzero temperatures. (Ob ispytanii metallov na svarevamost' pri otrit-

satel nykh temperaturakhj. Sleptsov, O.I., Issledovanija po fiziko-tekhnicheskim problemam Severa (Gornaia mekhanika i teplofizika, materialovedeniie) (Studies of physico-technical problems of the North (rock mechanics and thermal properties, materials technology)) edited by E.A. Bondarev, Yakutsk, IAkutskii filial SO AN SSSR, 1975. p.125-128, In Russian. 3 refs DLC TN109.177

Metals, Welding, Joints (junctions), Steel structures, Brittleness, Cold weather performance.

34-234

Stand for dynamic tests of self-lubricating materials for friction and wear at low temperatures. Stend dha dinamicheskikh ispytanii samosmazyvaiushchikhsia materialov na treme i iznos pri nizkikh temperaturakhj. Semenov, V.A., et al. Issledovamia po fiziko-tekhm-

cheskim problemam Severa (Gornaia mekhanika i teplofizika, materialovedenne) (Studies of physico-technical problems of the North (rock mechanics and thermeai problems of the North (rock mechanics and thermal properties, materials technology)) edited by E.A Bondarev, Yakutsk, IAkutskii filial SO AN SSSR, 1975, p. 132-135, In Russian 2 refs. Popov, N.S., Igoshin, V.A DIC TN109 177

Construction materials, Plastics, Polymers, Friction, Self lubrication, Low temperature tests, Test equip-

ment. 34-235

Remote sensing in glaciology and the physics of

Nye, J.F., Remote sensing of the terrestrial environment, edited by R.F. Peel et al. Symposium of the Colston Research Society, 28th, University of Bristol, 1976, Proceedings, London, Butterworths. April 5-9 1976, Proceedings, London, Butterworths, 1977, p 189-197, 24 refs DGS 753 7 R228t

Ice sheets, Radio echo soundings, Remote sensing.

Ice sheets, Radio echo soundings, Remote sensing. The many applications of remote sensing that are now being used in glaciology are briefly mentioned, detailed accounts of most of them are conveniently available in a recent conference volume. The most highly developed application is the echo sounding of Greenland and Antarctic masses by radio pulses. After referring to the successes and potentialities of this technique, the chapter describes current experimental and theoretical work at Bristol on the topic. A radio echo has a detailed structure both of amplitude and of phase, it is a pattern in the dimensions, moving upwards and changing with time as it goes it can be observed with the aid of a laboratory analogue machine that uses ultrasoonic pulses in place of radio pulses. A conspicuit can be observed with the aid of a laboratory analogue machine that uses ultrasonic pulses in place of radio pulses. A conspicuous feature of the pattern is a complicated array of looped lines, called dislocations, along which the amplitude is zero and the phase is indeterminate. They are analogous to the dislocations found in crystals. A comprehensive theory of the scattering of pulses by a rough ways surface, or other scattering object, which seems essential to a full understanding of active remote sensing, does not yet exist. One of the features it has to take into acdoes not yet exist. One of the features it has to take into ac-count is the imperfect focusing of the echoes on to causti-surfaces and the relation between these surfaces and the disloca-tion lines. (Auth. mod.) does not yet exist

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DLC TA440.1765

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34-346

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Roofs, Prefabrication. Plates, Concretes, Reinforced concretes, Cements, Waterproofing, Frost resistance.

34-347

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34.351

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Reinforced concretes, Concrete strength, Brittleness, Concrete freezing, Frost resistance, Low temperature tests, Laboratory techniques.

34-354

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DLC GC311,P74

Ice surveys, Ice reporting, Airborne radar, Ice conditions, Drift, Ice edge, Ice navigation.

34.350

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Antropova, I. V., et al. Prirodnye usloviia i estestven-nye resursy severnykh morei (Natural conditions and resources of northern seas) edited by V.T. Zhev-novatyi, Leningrad, 1977, p.90-107, In Russian. 9

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Action to

Numerical modeling of the glaciers-ocean-atmos-

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34-361

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Variations in the antarctic ice sheet are examined

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Ice composition, Meltwater.

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Glacier flow, Bottom topography, Mathematical models, Basal sliding.

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ematical models.

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High pressure ice, Latticed structures, Thermal expansion, Proton transport.

34-373

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34-375

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Radio echo soundings. Ice sheets, Sea ice.

Radio echo soundings, Ice sheets, Sea ice. The activities of the Scott Polar Research Institute for the year ending Sep. 30, 1978 are summarized under the following topics: teaching and research, library and information service, international activities, finance, and lectures. In addition, publications, grants, visiting scholars, staff and research students, and gifts are listed. The principal achievements of the airborne radio echo sounding of polar ice sheets program were filling in gaps in the 100-m flightline network over east Antarctica and extending it westwards. The previous sounding grid over Marie Byrd Land was extended eastwards towards the Pensacola and Ellsworth mountains and ten glaciological profiles were flown over various areas. For the first time, simultaneous magnetic profiles were obtained on radio echo flights.

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Estimates have been made of the mass budget of the total diamage basin of Lambert Glacter. These show a small but significant positive state of balance for the interior basin (the accumulation area up-stream of the major ice streams), and strongly suggest a positive balance for the Lambert Glacter system (the region of major ice streams), between the Amery Ice Shell and the interior basin). The total mass flux into the interior basin is estimated as 60 Gt a. Results are presented from a number of ice movement stations established between 1972 and 1974 around the perimeter of the southern Prince Charles Mountains. These results, together with ice thicknesses from radio echo-sounding in the area, give a total mass outflux through the colorism of the state of the southern Prince Charles Mountains. These results, together with ice thicknesses from radio echo-sounding in the area, give a total mass outflux through the contour of 30. Gt a, implying a budget excess of a further 30. Gt a over the whole interior basin. Results from relocity and ice thickness measurements give a mass discharge through a section near the junction of Lambert Glacter and the Amery Ice Shelf of 11 Gt a. Losses within the Lambert Glacter system proper account for a further? Gt a and an overall mass excess of 12 Gt a is estimated for the Lambert Glacter system. This present positive state of balance contrasts with geomorphological evidence from the southern Prince Charles, Mountains of a large drop in ice level in recent geological time, and the ice surface in the area may now be building up after a manut recession. (Auth.) Estimates have been made of the mass budget of the total drainand the ice surface in the area may now be building up after a major recession (Auth)

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Electrical resistivity measurements were carried out at Station 19 on the Ross Ice Shelf where temperature measurements were available to a depth exceeding three-quarters of the thickness of the shelf. As in a previously published study at a point about 30 km up-stream (Bentley, 1977), the apparent resistivities fit well to a model based upon a steady-state ice shelf with zero bottom balance-rate and an apparent activation energy in the solid ice of 0.15 to 0.25 eV, with preference for the lower end of the range. This model also fits the observed temperature data almost perfectly. Causes of resistivity variation with depth other than the temperature, such as impurity content, metamorphic history, grain size, and crystal orientation, probably do not strongly affect the resistivity depth function. It is concluded that the true activation energy in the solid ice is less than 0.25 eV and perhaps as small as 0.15 eV, although a reduction by a factor of two or three in the ionic impurity concentration between 50 and 250 m depth cannot be entirely ruled out as a cause of the low apparent temperature effect. A note added in proof indicates that Heiron and a lower of the low apparent temperature effect. A note added in proof indicates that Heiron and a lower of the low apparent temperature effect. A note added in proof indicates that Heiron and a lower of the low apparent temperature effect. A note added in proof indicates that Heiron and a lower of the low apparent temperature effect. A note added in proof indicates that Heiron and a lower of the low apparent temperature effect. A note added in proof indicates that Heiron and a lower of the low apparent temperature effect. A note added in proof indicates that Heiron and a lower of the low apparent temperature effect. A note added in proof indicates that Heiron and a lower of the low apparent temperature effect.

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Vertical shear stress in ice shelves cannot be precisely zero, since the upper and lower surfaces are generally not parallel Vertical shear stress is calculated for an unconfined glacier tongue and for a confined bay lice shelf, first, using the assumption of constant temperature and density with depth, and secondly, using realistic data and profiles for Erebus Glacier tongue and for the Amery Ice Shelf. Shear stresses increase almost linearly with depth, and are proportional to surface slope. For Erebus Glacier tongue the stear stress is at most 5% of the magnitude of the direct stress deviators and its action through the ice shelf should result in differential movement of 1.8 cm/a between the top and bottom of the ice shelf. For the Amery

Ice Shell, the shear stress is at most 0.4 of the magnitude of the direct stress deviators and this should lead to differential movement of 2.5 cm a between the top and bottom of the ice shelf. Shear stresses are therefore generally negligible in comparison with direct stress deviators and can be ignored when considering the overall dynamics of ice shelve. Differential movement is unlikely to be detectable. (Auth.)

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Waste disposal, Watersheds, Economic development,

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Models Ecosystems

Roofs, Thermal conductivity, Icing, Melting, Slope

orientation.

Six test roofs of two different slopes: 16.3 deg and 39.8 deg, and three different roof coverings: asphalt shingles, cedar shingles, and corrugated aluminum sheeting, were constructed at USACREEL, Hanover, New Hampshire, and were instrumented with thermocouples, heat flow meters, and calibrated the ship of the ship mented with thermocouples, heat flow meters, and calibrated gutters. Measurements were recorded for the winters of 1971-72 and 1972-73. The degree of long and the chromological changes in the snow cover were recorded on 35-mm Kodachrome shides. It was found that eave long is a sensitive function of the slope, roof covering composition, and solar radiation. The effects of wind were not investigated, the data were screened to remove all information corresponding to wind-speeds over 8 km/h. In order of increasing tendency to form the data with the continuous control of the control of the

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Snow (construction material), Projectile penetration, Penetration tests.

Penetration tests.

Three types of ammunition, the M193, M80, and M43, were tested. Rounds were fired into snow targets of various thicknesses up to that thickness required to fully stop the projectiles. The maximum penetrations for the three rounds tested were 0.70 m. 1.26 m and 1.06 m, respectively. Velocity loss as a function of target thickness was determined by measuring proctile velocity before and after impact of the projectile with target. The velocity loss vs. thickness data showed a sigmoid shape common to the three types of rounds. The impact and exit yaw angles of the M193 rounds were estimated. Scatter in the test data was attributed, in part, to random variations in the impact yaw angle. The penetration required for a 90 deg yaw was determined by the exit yaw measurements. This was shown to correspond to the inflection point on the velocity loss vs. penetration curve. This point is potentially significant in the design of composite fortifications. Discussions deal with basic concepts and definitions, the occurrence and significance of projectile tumbling and the use of laboratory tests for small arms evaluation in snow targets. The validity of the methodology used was established by testing M193 rounds in gelatin largets. These results compared favorably with similar test results in literature. sults in literature

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Strength, Models, Analysis (mattematics). The book from which the three chapters in this translation are taken investigates principles of rheology in soil mechanics and bases its scientific principle on the relation of pressure change and volume, densification, and such properties of soil as internal friction, cohesion, and changes in structure and texture. Chapter 5 investigates forms of creep, deformation, residual deformation and the relation of stress, strain and time. The general forms of the creep flow equations are treated considering time

and rate variables. Experimental data are prometed. Chapter 7 investigates the mechanistic models of linear elastic-plastic concepts of ground deformation, arriving at a series of complicated concepts explaining shear creep. The chapter end with theoretical fundamentals of flow and creep based on nolecular-kinetic and thermoactive processes. Chapter 9 leads to field and laboratory strength tests of soil. Investigated are the conditions of load application and its influence upon test results. results. The important long-term strength equations are derived in detail. The chapter gives many concepts of strength variables, conditions and states which are immediately applicable in practice.

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Meltwater, Electric power.

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Snow cover distribution, Spaceborne photography, Climatic changes.

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Development of ice by cryostatic pressure in northeastern Wisconsin and its effect on uncon-

solidated shore bluffs.
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Glacier discharge in the Sör-Rondane, a contribution to the mass balance of Dronning Maud Land, Antarc-

tica. Autenboer, T. van, et al. Zeitschrift für Gletscher-kunde und Glazialgeologie. 1978, 14(1), p.1-16 + Le English with German summary. 40 refs. map, In English with German summary. Decleir, H.

Glacier mass balance, Glacier flow, Glacier thickness, Glacier oscillation, Glacial hydrology, Gravimetric prospecting, Antarctica—Queen Maud Land.

Mass transport and mass flux values for the different types of glaciers in the Sör-Rondane are calculated from computer mod-

els, based upon gravity data and geodetic stake velocity rieas-urements. The results are interpreted in the light of a general flow line analysis, glacial geological investigations, and the abla-tion terms of the mass balance for Dronning Maud Land and other parts of Antarctica (Auth)

34-662

Photo-geomorphic map of the Mt. Menzies nunatak, Prince Charles Mountains, Australian Antarctic Ter-

Derbyshire, E., et al, Zeitschrift für Gletscherkunde und Glazialgeologie, 1978, 14(1), p.17-26, In English with German summary. 20 refs. Peterson, J.A.

Geomorphology, Nunataks, Moraines, Patterned ground, Glacier surveys, Ice wedges, Mapping, Antarctica-Menzies, Mount.

tarctica—Menzies, Mount.

Study of recent high quality stereoscopic color photography of the Southern Prince Charles Mountains, Australian Antarctic Territory, allows detailed reconnaissance mapping of geomorphology. One of the largest and southernmost nunataks of the area (around Mt. Menzies 3,228 m) was selected for detailed study. Features mapped include ice-cored moraines, moraine ridges, trim lines, thermokarst, colian and niveo-colian deposits, ice wedge polygons with raised crims, and ice wedge polygons with raised crims, and ice wedge polygons with raised crims, but the most extensive morphological type, occurring in continuous fields in the eastern half of the nunatak. Ice-covered forms are common around much of the nunatak margins, some being mantied with a sufficient thickness of debris cover to have acquired ice-wedge polygons. Moraine ridges above the present ice limits, but lacking evidence of an ice core occur over a wide altitudinal range. Many of these are related to higher stands of the surrounding mland ice, and provide evidence of former ice limits.

34-663

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Firn, Water table, Glacial hydrology, Subglacial drainage, Ablation, Time factor.

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Snow cover distribution, Remote sensing, Maping, LANDSAT, Watersheds, Mountains.

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phology, Profiles, Theories, Topography.

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Taiga, Baykal Amur railroad.

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analiz priznakov razlichnykh prirodnykh rezhimov stesl'iu vyiavleniia struktury geosistemy, Kobeleva, N.V., et al, Struktura i dinamika geosistem (Structure and dynamics of geosystems) edited by V.S. Mikheev and B.I. Kochurov, Novosibirsk, Nauka, 1979, p.14-34, In Russian. 16 refs. Madasova, A.A., Mikheev, V.S. Swamps, Taiga.

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Steppes, Soil water migration, Soil freezing.

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Taiga.

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Steppes, Landscape types, Vegetation, Microrelief, Ecosystems, Charts.

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Systems of economic development of natural resources in intermontane basins of Subarctic highlands. (Sistemy prirodopol'zovaniia v mezhgornykh

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34-683

Vegetational cover in areas adjacent to the Baykal Amur railroad and problems of its preservation. [Rastitel'nyl pokrov primagistral'nykh raionov trassy BAM

problemy ego okhrany,
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Nauka, 1979, p.36-90, In Russian. 15 refs.
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Taiga, Tundra, Baykal Amur railroad.

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Kachelhoffer, S.J., Madison, University of Wisconsin, 1973, 49p., Master's thesis. 16 refs. Unpublished manuscript.

Pack ice, Sea ice distribution, Meteorological factors. Pack ice, Sea ice distribution, Meteorological factors. Statistics of a number of characteristics of the cloud vortices associated with cyclonic storms in the 40-75S latitude belt have been compiled, based upon an evaluation of ESSA Southern Hemisphere musaic satellite photographs for the spring and fall seasons, when the pack-ice border is at its farthest equatorward and poleward positions. Analysis of the data shows a significant equatorward shift of the latitude of maximum frequency of storm occurrence in spring when compared to the fall season, which corresponds with the annual migration of the pack-ice border. The longitudinal distributions and directions of movement of cyclonic storms do not appear to be significantly afwhich the longitudinal distributions and directions of move-ment of cyclonic storms do not appear to be significantly af-fected. Results of an attempt to correlate the spring position of the pack-ice border with the spring latitudinal distribution of vortices in certain longitude sectors show an apparent, but not highly significant, relationship. (Auth. mod.)

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Mars (planet), Carbon dioxide, Frost, Wind (meteorology).

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Schmutzler, R.A., Rowley, P.D.

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34.688

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Windows, Insulation.

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Osterkamp, T.E., Northern engineer, Summer 1977, 9(2), p.4-6, 1 ref.

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Cold weather construction, Modular construction, Buildings, Design.

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34.606

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Waste disposal, Water treatment, Irrigation, Soil

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Wastewater helps the Darley grow.
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Podolny, W., Jr., Military engineer, Sep.-Oct. 1979, 71(463), p.341-342, 347-348.

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Khvorostovskaia, N.S.

Permafrost beneath structures, Pile driving, Frozen ground temperature, Thermal regime, Pile foundations.

Determining thawing rate of permafrost with an al-ternating electrical current. Opredelenie skorosti ot-taivaniia vechnomerzlykh gruntov peremennym elek-

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Earth dams, Frozen ground, Ground ice, Dynamic

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Pile structures, Soil freezing, Soil water migration,

Frost heave, Design.

34-709

Approximate calculation of frost heave forces acting on pilework. [Priblizhennyl raschet sil moroznogo pucheniia, deistvuiushchikh na rostverk svalnogo fun-

Konjushenko, A.G., Stroitel'stvo v rajonakh Vostochnoi Sibiri i Krainego Severa, 1976, Vol. 38, p.92-100, In Russian. 5 refs.

Pile structures, Soil freezing, Frost penetration,

Frost heave. Stresses.

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Ice (construction material), Ice strength, Reinforced ice, Wood, Wastes.

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Pile structures, Permafrost beneath structures, Earthquakes, Permafrost bases, Thermal regime, Permafrost control.

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Piles, Concrete piles, Bearing strength.

Basic classification indices of peat soils. (Osnovnye klassifikatsionnye parametry torfianykh gruntovy, Roman, L.T., Stroitel'stvo v raionakh Vostochnoi Sibiri i Krainego Severa, 1976, Vol.38, p.122-130, In Russian. 9 refs. Swamps, Peat, Bearing strength, Soil composition,

Frozen ground

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Foundations, Rock fills, Permafrost beneath struc-tures, Thermal insulation, Permafrost control, Build-

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Artesian water, Permafrost distribution, Permafrost hydrology, Cryogenic structures, Geocryology, USSR Transbaikal.

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Models, Soil freezing, Ground thawing, Frozen rock

temperature. 34-719

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Calorimeters, Design.

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Design of bases and foundations on subsiding soils. Raschet osnovanil i fundamentov na prosadochnykh

Mustafaev, A.A., Moscow, Vysshaia shkola, 1979, 368p., In Russian with English table of contents. refs

Fines, Bearing strength, Subsidence, Clays, Loess, Soil water migration, Piles, Settlement (structural), Large panel buildings.

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gornye linii elektroperedachi<sub>1</sub>, Davidian, D.B., Erevan, Aiastan, 1979, 188p., In Russian with English table of contents enclosed. Refs.

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Arctic Ocean heat budget; report from SCOR Working Group 58.
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Sea water, Heat balance, Sea ice, Climatic factors, Heat flux, Heat loss, Snow density, Snow depth, Ice cover thickness, Phase transformations, Arctic Ocean.

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Lake ice density in the environment-practical approaches to measurement and calculation. Adams, W.P., et al, Trent University, Peterborough.

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Artificial tritium fall-out at the South Pole.

Jouzel, J., et al, Behaviour of tritium in the environment, International Atomic Energy Agency, IAEA-SM-232/38, Vienna, Austria, 1979, p.31-46, 24 refs.

Pourchet, M., Lorius, C., Merlivat, L.
Radioactive isotopes, Isotope analysis, Fallout,
Precipitation (meteorology), Antarctica—Amundsen-Scott Station.

Snew samples were taken from a 5-m-deep pit located near Amundsen-Scott Station in Jan. 1975, and continuous deuterium, tritium and beta activity profiles have been obtained from them. These three measurements and the stratigraphic level observation allow a precise chronology of the pit from 1950 to 1975 to be deduced, providing a continuous record of artificial tritum fall-out in the Southern hemisphere. This has been extended to 1978 using samples from a second pit taken in 1978. The beta and trittum peaks occur during the Antaretic summer and the Antaretic winter respectively, showing different injection mechanisms. The winter input and the high-tritum values registered at the Amundsen-Scott Station indicate a preferential intium transfer over the polar region. Two cate a preferential tritium transfer over the polar region—Two inechanisms, stratospheric-tropospheric exchange and direct stratospheric cloud precipitation, could account for this injec-

### 14-725

Economic analysis of an Arctic icebreaking tanker Porter, T.J., University Park, Pennsylvania State University, Nov. 1977, 102p., M.S. thesis. 28 refs. Ice breaking, Economic analysis, Tanker ships, Petroleum transportation, Environmental impact.

U.S. Geological Survey in Alaska; 1979 programs. Reed, K.M., ed, U.S. Geological Survey. Circular, 1979, No.804-A, 94p.
Geological surveys, Topographic surveys, Water reserves, Mapping, United States—Alaska.

Average spring, summer, fall and winter iceberg den-

Average spring, summer, tail and winter teoerg uensity distribution along the Labrador Coast. Gustajtis, K.A., et al, St. John's, Memorial University of Newfoundland, C-CORE, 1977, 4 maps. Buckley, T.J.

Icehergs. Sea ice distribution. Ice conditions. Seasonal variations, Canada—Newfoundland—Labrador Coast.

Reduction of contamination problems in sampling of antarctic snows for trace element analysis. Boutron, C., Analytica chimica acta, 1979, Vol. 106, p.127-130, 5 refs.

Snow composition, Sampling, Snow impurities.

# 34.729

Preconcentration of dilute solutions at the 1/1,000,-000 microgram/g level by nonboiling evaporation with variable variance calibration curves.

Boutron, C., et al. *Analytical chemistry*, Jan. 1979, Vol.51, p.140-145, 10 refs. Martin, S.

Snow composition. Chemical composition. Snow im-

purities, Evaporation.

purities, Evaporation. A procedure is described for the preconcentration of very dilute solutions at the 1/1,000,000 microgram/g level by nonboiling evaporation in Telon bulbs in the presence of hydrofluoric and intric acids under clean room conditions. By processing various synthetic standards, calibration curves are determined by variable arnance statistical techniques for Na, Mg, K. Ca, Fe, Al, Mn, Pb, Cd, Cu, Zn, and Ag. The results of the analysis by this procedure of a typical snow sample collected at South Pole Station show that for most of the elements the precision is in the order of 10%. (Auth. mod.)

Determination of the stratospheric residence time from the total beta activity of antarctic and Greenland snows.

Pourchet, M., et al, Geophysical research letters, May 1979, 6(5), p.365-367, 9 refs. Pinglot, F.

Snow impurities, Radioactivity, Fallout, Stratosphere.

phere.

The beta-activity in polar snow reflects the combined effects of fallout from and radioactive decay in the stratospheric reservoir of nuclear debris, which has become virtually uniform since the last bomb tests in 1965. This makes it possible to estimate the stratospheric residence time from the decrease in the beta-activity of snow with age (depth). The residence times thus determined for Antarctica and Greenland average 1.63 years and are in good agreement with published estimates from atmospheric measurements. (Auth.)

# 34.731

Alkali and alkaline earth enrichments in aerosols deposited in antarctic snows.

Boutron, C., Atmospheric environment. 1979, Vol.13, p.919-924, 25 refs.

Snow composition, Snow impurities, Aerosols.

About 175 snow samples collected in various locations both in East and West Antarctica, using stringent contamination free techniques, have been analyzed for Na, Mg, K, Ca and Al by techniques, have been analyzed for Na, Mg, K, Ca and Al by flameless atomic absorption after preconcentration. Multiple linear regression analysis was used to calculate the enrichment factors for K, Ca and Mg in both the oceanic and the crustal components: no significant enrichments are found in antarctic snows, which suggests that the enrichments previously observed by Vosters (1971) and Boutron et al. (1972) could be linked with a contamination of the samples analyzed by these authors. This conclusion can probably be extended to antarctic aerosols, since their composition is very likely similar to that of snow, as shown at the South Pole by comparison between our snow data and unpublished aerosols composition data by Maenhaut, Duce and Zoller. (Auth.)

# 34-732

West Antarctic ice sheet: present-day thinning and Holocene retreat of the margins. Thomas, R.H., Science, Sep. 21, 1979, 205(4412),

p.1257-1258, 20 refs.

Ice sheets, Ice shelves, Glacier oscillation, Ice mod-

Retreat of the margins of the West Antarctic ice sheet as-sociated with rising sea level during the last 15,000 years is the main cause for the thinning of the ice sheet by approximately 300 meters. The West Antarctic ice sheet during the late Wis-consin was at least 30 percent wider than it is today, and Holo-cene retreat of its margins has added about 6 meters to the world sea level (Auth)

# 34-733

Canadian geothermal data collection—northern wells 1976-77

Taylor, A.E., et al, Canada. Geothermal Service. Geothermal series, 1977, No.10, 194p., In English with French summary. 3 refs. Judge, A.S.

Geothermometry, Permafrost thickness, Canada-Northwest Territories.

Helicopter icing handling qualities.
Griffith, W.E., II, et al, New York, American Helicopter Society, 1974, 9p., 13 refs.
Presented at the 30th annual national forum of the American Helicopter Society, Washington, D.C., May 1974. Brewer, L.K.

Helicopters, Aircraft icing, Tests.

Freeze-up forecasting on the Great Lakes using weighted mean temperatures.

Rogers, J.C., Ann Arbor, Great Lakes Environmental Research Laboratory, 1975, 16 leaves, Unpublished manuscript. 3 refs

Lake ice, Ice forecasting, Freezeup.

Compositional difference between Arctic aerosol and snow.

Rahn, K.A., et al. *Nature*, Aug. 9, 1979, 280(5722), p.479-480, 12 refs.

McCaffrey, R.J.
Aerosols, Snow composition, Air pollution.

20-yr cycle in Greenland ice core records. 9. 1979. Hibler, W.D., III, et al, *Nature*, Aug. 280(5722), MP 1245, p.481-483, 26 refs. Johnsen, S

Ice cores, Drill core analysis, Isotope analysis, Periodic variations.

Oxygen isotope analysis of Greenland ice cores is made and the Oxygen isotope analysis of oreenand recovers in made and the methods of analysis are described. Cyclic variations of about 20 yr seem to coincide with climatic oscillations and the Sun's motion about the center of mass of the Solar System. These periodic variations are compared with the oxygen isotope record in the ice cores.

Mars: the wet look.

Eberhart, J., Science news, Aug. 11, 1979, 116(6),

Mars (planet), Water supply, Frost, Permafrost distribution.

Annotated bibliography on northern environmental engineering 1976-1977.

Armstrong, B.C., comp. Canada. Environmental Protection Service. Report. Jan. 1979, EPS 3-WP-79-1, 132p. Cameron, J.J., comp.

Bibliographies, Utilities, Waste disposal, Water supply, Water treatment, Pipeline insulation, Frost protection.

Tundra lakes as a source of fresh water: Kipnuk.

Bredthauer, S.R., et al, U.S. Army Cold Regions Research and Engineering Laboratory, Sep. 1979, SR 79-30, 16p., ADA-075 475, 12 refs. Doerflinger, D.F.

Lake water, Tundra, Snowmelt, Water supply, Arctic

# regions.

regions.

A study of water quality in several small tundra lakes near Kipnuk, Alaska, was conducted to determine if the lakes were of sufficiently high quality during the snowmelt season to provide the village with enough water for a year-round supply. Since the village is located just 4 miles inland from the Bering Sea, primary emphasis was placed on locating water sources with low chloride concentrations. The tundra lakes were of sufficiently high quality to be pumped into a storage area during early summer to be used as a year round supply.

Dynamic thermodynamic sea ice model.

Hibler, W.D., III, Journal of physical occanography, July 1979, 9(4), MP 1247, p.815-846, 51 refs. Sea ice, Thermodynamics, Heat transfer, Ice cover

thickness, Mathematical models.

A numerical model for the simulation of sea ice circulation and thickness over a seasonal cycle is presented. This model is used to investigate the effects of ice dynamics on arctic ice thickness and air-sea heat flux characteristics by carrying out. several numerical simulations over the entire Arctic Ocean region. The essential uea in the model is to couple the dynamics to the ice thickness characteristics by allowing the ice interaction to become stronger as the ice becomes thicker and/or contains a lower areal percentage of thin ice. The dynamics, in turn, causes high oceanic heat losses in regions of ice divergence and reduced heat losses in regions of convergence. To model these effects consistently, the ice is considered to interact in a plastic manner with the plastic strength chosen to depend on the ice thickness and concentration. The thickness and concentration in turn, evolve according to continuity equations which include changes in ice mass and percent of open water due to advection, ice deformation and thermodynamic effects. several numerical simulations over the entire Arctic Ocean re-34-742

Insulating and load-supporting properties of sulfur

foam for expedient roads in cold regions.

Smith, N., et al, U.S. Army Cold Regions Research and Engineering Laboratory, Sep. 1979, CR 79-18, 21p., ADA-074 694, 6 refs.

# Pazsint, D.A.

Roads, Thermal insulation, Cellular materials, Bearing strength, Freeze thaw cycles.

ing strength. Freeze thaw cycles.

Temperatures of the subgrade and of sulfur foam insulation test sections in an expedient road were monitored with thermocouples to document freezing and thawing conditions. Vehicular trafficking was conducted on a limited basis to determine the load supporting capabilities of the foam. The sulfur foam, placed directly under a prefabricated surface mat, was found to be unsuitable for use as an expedient thermal insulation and traffic load supporting material, primarily because of its low tensile strength and high brittleness. The insulating value of sulfur foam produced by the batch process in the field was about one-half that of extruded polystyrene, meaning double the one-half that of extruded polystyrene, meaning double the thickness for equal protection against thaw

# 34-743

soil Documentation characteristics Documentation of soil characteristics and climatology during five years of wastewater application to CRREL test cells.

Iskandar, I.K., et al, U.S. Army Cold Regions Research and Engineering Laboratory, July 1979, SR 79-23, 82p., ADA-074 712, 14 refs.

Quarry, S.T., Bates, R.E., Ingersoll, J.

Waste disposal, Water treatment, Soil chemistry,

Climatology, Meteorological data.

Climatology, Meteorological data.

Section 1 deals with physical properties of the two soils used and the changes in soil chemical characteristics. The physical properties of the soil are those most important in controlling the rate of water movement in soils, such as saturated and unsaturated soil hydraulic conductivity, particle size distribution, bulk density, void ratio, available water and specific gravity. The chemical characteristics of the soil that are of potential importance in assessing the short and long-term effects of wastewater application on land include: free iron oxides, organic carbon, organic nitrogen, pH, conductivity, cation exchange capacity, exchangeable cations, total and extractable phosphorus, and total and extractable heavy metals. Section 2 summarizes climatic conditions at the CRREL site in Hanover, New Hampshire, and the changes that occurred during the period 1974 to 1978. Climatic parameters include temperature, precipitation, wind speed, and soil temperature at depth. 34-744

Determination of dissolved nitrogen and oxygen in

water by headspace gas chromatography. Leggett, D.C., U.S. Army Cold Regions Research and Engineering Laboratory, July 1979, SR 79-24, 5p., ADA-074 411, 25 refs. Lake water, Water chemistry.

Lake water, Water chemistry.

In this study dissolved oxygen and natrogen were determined by shaking 20 to 25 ml of water with an equal amount of helium in a 50-ml gas-tight syringe and injecting 2 ml of the equilibrated headgas into a gas chromatograph. Oxygen and nitrogen were separated on a 5-A molecular sieve column at ambient temperature and detected with a hot wire detector, using atmospheric air for calibration. Advantages of this method over previously reported methods are 1) oxygen and nitrogen are determined in a single analysis. 2) no specifically fabricated stripping apparatus is needed, and 3) analysis can be done in the field with completely portable, battery-operated equipment. The method appears to be accurate and reproducible; several lake O2 and N2 profiles were obtained using this technique. 34-745

Extending the useful life of DYE-2 to 1986, Part 1:

Extending the useful life of DYE-2 to 1986, Part 1: Preliminary findings and recommendations.

Tobiasson, W., et al, U.S. Army Cold Regions Research and Engineering Laboratory, July 1979, SR 79-27, 15p., ADA-074 733, 3 refs.

Korhonen, C., Redfield, R.
Cold weather construction, Ice sheets, Steel structure. Streets

tures. Stresses.

DEW Line Ice Cap Station DYE-2 appears to need major work within the next few years to extend its useful life to 1986. The

Market & section of the second of the second

structural steel frame is overstressed in a few areas, and the structural steel frame is overstressed in a few areas, and the lower portion of the subsurface timber truss enclosure is in bad condition. Additional performance measurements are needed during 1979 to determine the rate of secondary stress in the structural steel frame and the rate of deterioration of the truss enclosure. With this information, a decision can be made. enclosure. With this information, a decision can be made whether to move the building sideways onto a new undistorted foundation or to stabilize it in-place by encapsulating the lower 52 ft of the substructure in ice.

Utilization of sewage sludge for terrain stabilization in cold regions, Part 2.

Gaskin, D.A., et al, U.S. Army Cold Regions Research and Engineering Laboratory, Aug. 1979, SR 79-28, 36p., ADA-074 725, 10 refs. For Part 1 see 32-1368. Palazzo, A.J., Rindge, S.D., Bates, R.E., Stanley, L.E. Sludges, Sewage disposal, Soil stabilization, Vegetation.

tion.

From June 1975 to Sep. 1976, a research/demonstration study was conducted at CRREL in Hanover, New Hampshire, to investigate the use of sewage sludge, commercial fertilizer and cultivation techniques for terrain stabilization in cold regions. Twenty-seven test plots on a 16-deg west-facing slope received various combinations of: 1) surface preparation (tining, bull-dozer tracking, or compacting), 2) nutrient source (sewage sludge or fertilizer), 3) mulching agent (wood fiber mulch or peat moss), and 4) tacking agent (Terra Tack III or Curasol). The plots were seeded in either the spring or fall with a constant seed mixture. The effectiveness of the treatments was determined through vesetation yields and soil loss measurements. mined through vegetation yields and soil loss measurements.

34-747 Phenomenological description of the acoustic emission response in several polycrystalline materials.

St. Lawrence, W., Journal of testing and evaluation,
July 1979, 7(4), MP 1246, p.223-228, 11 refs.

Snow deformation, Snow cover structure, Snow acoustics, Acoustic measurement, Models.

The pattern of acoustic emission response in snow subjected to constant deformation rates is examined. The structural character of snow is discussed, and an equation that describes the pattern of the acoustic emission response is derived. Comparison between the predicted acoustic response and experimental data is made and the agreement is shown to be excellent. The acoustic emission response for 7075-76 aluminum and iron-3% silicon subjected to constant rates of deformation is also considered. The acoustic emission equation derived for snow represents the response in these materials. It is suggested that the internal fracture concept used to develop the model for snow may also apply to other densely packed polycrystalline materials.

34-748

Probabilities of blowouts in Canadian Acctic waters. Bercha (F.G.) and Associates, Ltd., Canada. Environmental Protection Service. Report, Oct. 1978, EPS 3-EC-78-12, 139p., In English with French sum-

Offshore drilling, Statistical analysis, Oil spills.

34-749

Dielectric properties of polymer materials in different climatic conditions. (Dielektricheskie svoistva polimernykh materialov v razlichnykh klimatiches-kikh uslovijakh).

Filatov, I.S., Novosibirsk, Nauka, 1979, 129p., In Russian with English table of contents enclosed. 60 refs. Construction materials, Plastics, Polymers, Dielectric properties, Freeze thaw cycles, Cold weather per-

34-750

Water supply and sewage in areas of permafrost and severe climate. Nekotoryc problemy vodosnabzheniia i kanalizatsii v raionakh vechnoi merzloty i

surovogo klimata<sub>3</sub>, Stegantsev, V.P., Stroitel'stvo v raionakh Vostochnoi Sibiri i Krainego Severa, 1974, Vol.32, p.3-13, In Rus-

Pipelines, Water supply, Sewage disposal, Perma-frost beneath structures, Permafrost hydrology.

34-751

Intensifying the performance of incomplete dug-out wells. [Predlozheniia po intensifikatsii raboty nesover-shennykh shakhtnykh kolodtsev],

IAkunin, IU.V., Stroitel'stvo v raionakh Vostochnoi Sibiri i Krainego Severa, 1974, Vol.32, 14-22, In Russian. 4 refs.
Water supply, Water pipelines, Wells, Permafrost,

Water intakes.

34-752

Performance of seepage tanks with trapezoidal cross sections and impervious slopes. [Rabota infil'tratsionnogo basselna trapetseidal'nogo secheniia s nepronit-

saemymi otkosamij, Bogoliubov, K.S., et al, Stroitel'stvo v raionakh Vos-tochnoi Sibiri i Krainego Severa, 1974, Vol.32, p.23-28, In Russian. 4 refs.

Braga, P.A. Water supply, Lakes, Tanks (containers), Seepage, Concrete structures, Design. 34-753

Studying river bed alluvium for designing seepage water intakes. ¿Izuchenic rechnykh alliuvial'nykh otlozhenil primenitel'no k ustrolstvu infil'tratsionnykh

vodozaborovi, Poriadin, A.F., Stroitel'stvo v raionakh Vostochnoi Sibiri i Krainego Severa, 1974, Vol.32, p.29-51, In Rus-

Water supply, Rivers, Water intakes, Alluvium, Permafrost beneath rivers.

Calculating water inflow into incomplete dug-out wells allowing for riverbed silting. Raschet pritoka vody v nesovershennye shakhtnye kolodtsy s uchetom

zaileniia rusla reki, IAkunin, IU.V., Stroitel'stvo v raionakh Vostochnoi Sibiri i Krainego Severa, 1974, Vol.32, p.52-81, In Rus-

Water supply, Wells, Rivers, Water intakes, Silting, Permafrost beneath rivers.

Graphic calculation of dug-out vacuum wells. (Grafi-cheskil raschet shakhtnykh vakuum-kolodtsev),

Sokolova, L.V., Stroitel'stvo v ratonakh Vostochnot Sibiri i Krainego Severa, 1974, Vol.32, p.82-88, In Rus-

Water supply, Wells, Water flow, Permafrost.

Combined portable fluid-level warning device. [Kombinirovannyi perenosnyi signalizator urovnia zhid-

Zhukov, B.P., et al. Stroitel'stvo v rajonakh Vostochnoi Sibiri i Krainego Severa, 1974, Vol.32, p.89-93, In

Russian. 1 ref. Nazarenko, A.S.

Pumps, Water supply, Water level, Warning systems, Pipelines, Water intakes.

34-757

Transfer of heat from a surface source along pipe walls. [Teploperedacha po stenke truby pri deistvii po-

verkhnostnogo teploistochnika<sub>1</sub>, Kardymon, V.F., Stroitel stvo v raionakh Vostochnoi Sibiri i Krainego Severa, 1974, Vol.32, p.94-106, In

Russian. 4 refs.
Water supply, Pipeline freezing, Water pipelines,
Electric heating, Heat transfer, Heating cables.

Thermal regime of water pipelines built in seasonally freezing ground. (Teplovol rezhim vodoprovodnykh setel, ulozhennykh v sloe sezonnogo promerzaniia

grunta, Pereleshin, R.S., et al, Stroitel'stvo v raionakh Vos-tochnoi Sibiri i Krainego Severa, 1974, Vol.32, p.107-210. In Russian. Semenov, L.P.

Water pipelines, Permafrost beneath structures, Active layer, Ground thawing, Pipeline freezing, Thermal regime, Soil temperature.

34-759

Field studies of temperature regime of water pipelines in deep seasonally freezing ground. Naturnye is-sledovaniia temperaturnogo rezhima vodovodov, ulozhennykh v sloe glubokogo sezonnogo promerzaniia

gruntaj. Pereleshin, R.S., et al, Stroitel'stvo v raionakh Vos-tochnoi Sibiri i Krainego Severa, 1974, Vol.32, p.121-126, In Russian. Semenov, L.P.

Water pipelines, Thermal regime, Seasonal freeze thaw, Pipeline freezing, Soil temperature.

34-760

Improving natural ventilation of underground utility ducts under permafrost conditions. (Sposoby uluch-sheniia ventiliatsii s estestvennym pobuzhdeniem pod-zemnykh kommunikatsionnykh kanalov v usloviiakh

vechnomerzlykh gruntov<sub>i</sub>, Ivont'ev, V.V., *Stroitel'stvo v raionakh Vostochnoi* Sibiri i Krainego Severa, 1974, Vol.32, p.127-136, In Russian I ref.

Utilities, Ducts, Ventilation, Permafrost beneath structures, Foundations, Permafrost control.

Experimental study of anchor support performance. (Eksperimental'nye issledovaniia raboty ankernol

Danilova, N.P., Stroitel'stvo v raionakh Vostochnoi Sibiri i Krainego Severa, 1974, Vol.32, p.137-147, In Russian. 2 refs.

Pipelines, Permafrost beneath structures, Pipeline supports, Anchors.

34-762

Use of nonmetallic pipelines in construction. (Primenenie nemetallicheskikh truboprovodov v stroi-

Borshcheva, N.I., et al, Stroitel'stvo v raionakh Vostochnoi Sibiri i Krainego Severa, 1974, Vol.32, p.148-151. In Russian.

Dem'ianova, T.A.

Cements, Pipelines, Reinforced concretes, Construction materials, Plastics, Concretes, Permafrost beneath structures, Asbestos.

Rational use of water by Krasnoyarsk factories. [Effektivnosť ispoľzovanija vody na predprijatijakh Krasnoiarskaj, Stegantsev, V.P., et al, Stroitel'stvo v rajonakh Vos-

tochnoi Sibiri i Krainego Severa, 1974, Vol.32, p.152-

158, In Russian. 5 refs. Bubentsov, V.N., Emelina, Z.G.

Industrial buildings, Water supply, Sewage, Environ-mental protection, Water pollution, Water treatment.

Filter purification of waste waters from tire factories.

Filter purification of waste waters from the factories. (Ochistka proizvodstvennykh vod shinnogo zavoda metodom fil'trovaniia).

Emelina, Z.G., et al. S'roitel'stvo v raionakh Vostochnoi Sibiri i Krainego Severa, 1974, Vol. 32, p.159-169, In Russian. 4 refs.
Rozhkovskaia, T.M.
Water supply, Petroleum industry, Wastes, Water receptions. Eliters. Permefroet Chemical industry.

treatment, Filters, Permafrost, Chemical industry.

34-765

Experimental project of sewage systems for the Pionerskaja Rechka sanatorium, (Eksperimental'ny) proekt ochistnykh sooruzhenil sanatoriia "Pionerskaia

rechka"]. Mochalov, I.P., et al, Stroitel'stvo v raionakh Vostoch-noi Sibiri i Krainego Severa, 1974, Vol.32, p.170-177. Stepanov, V.A., Suroiakov, I.M.

Sanitary engineering, Permafrost beneath structures, Sewage treatment, Sewage disposal, Water treat-

Waste water purification in small northern settlements. [Ochistka stochnykh vod nebol'shikh sever-

nykh poselenitj. Mochalov, I.P., Stroitel stvo v raionakh Vostochnoi Sibiri i Krainego Severa, 1974, Vol.32, p.178-188, In

Sanitary engineering, Sewage treatment, Sewage dis-

Vegetation and climate on Coburg Island, N.W.T. Muller, H., Polar geography, July-Sep. 1979, 3(3), p.139-147, 6 refs.

Plant ecology, Arctic landscapes, Wind factors, Wind

direction, Canada-Northwest Territories-Coburg

34-768

Engineering geology of the U.S.S.R. Vol.5, Altai and Ural Mountains, Inzhenernaia geologiia SSSR. Tom piatyi, Altai. Ural, Trepettsov, E.V., ed, Moscow, Universitet, 1978, 220p., In Russian with English table of contents en-

closed. 138 refs. Popov, I.V., ed, Tereshkov, G.M., ed.

Engineering geology, Geocryology, Permafrost distribution, Permafrost thickness, Solifluction, Thermokarst, Frozen fines, Clays, Ground ice, Permafrost weathering.

34-769

Operation of airports. Maintenance and repairs. Manual. [Ekspluatatsiia aerodromov. Soderzhanie i remont. Spravochnik], Goretskii, L.I., et al. Moscow, Transport, 1979, 215p..

In Russian with abridged English table of contents enclosed. 25 refs.

Airports, Winter maintenance, Cold weather opera-

Alaska Mining and Water Quality: proceedings of the symposium. Alaska. University. Institute of Water Resources. Report. Apr. 1979, IWR 93, 82p., Numerous refs.

1 - Blever in the Wanter & with

Meetings, Mining, Water quality.

Report of the Joint U.S.-Canadian Northern Civil Engineering Research Workshop.

Water Resources. Report, Mar. 1978, IWR 96, 72p..
Workshop met in March 1978 at the University of Alberta in Edmonton

Morgenstern, N.R., ed.

Meetings, Engineering, Research projects, Natural resources, Ice, Snow, Frozen ground, Hydrology, Hydraulic structures, Environmental protection, Utili-

34-772

Glaciological and marine biological studies at perimeter of Dronning Maud Land, Antarctica. Final re-

Orheim, O., National Aeronautics and Space Administration. Contractor report, June 1977, NASA-CR-155210, 17p., N78-10532, 4 refs.
Sea ice distribution, Remote sensing, Icebergs, Map-

ping, Spaceborne photography, Ice floes, Antarctica
—Oueen Maud Land.

—Queen Maud Land.

The author has identified the following significant results. A nearly complete map of the Dronning Maud Land coastline from 10W to 29E was produced. Based on this, it was determined that for the past 20 years the minimum calving rate from this part of the coastline was 60 cu km/year. The drift speeds were measured for ice floes and bergs between 9 and 20 km/day, and it was found that the number of ice floes of a given size decreases exponentially with size, so that each size class covers approximately the same area. A large melt phenomenon at blue ice fields around 70.7S and 26-29E was discovered.

Methods for prediction of the influence of ice on aircraft flying characteristics.

Ingelman-Sundberg, M., et al, Swedish-Soviet Working Group on Flight Safety, 6th meeting. Report No.JR-1, 1977, 44p., 9 refs.

Trur w. O.K., Ivaniko, A.

Aircraft icing, Flight characteristics.

Investigation of multi-year pressure ridges and shore

Kovacs, A., et al, Arctic Petroleum Operators Associa-tion. Report. Oct. 1975, APOA 89-1, 45p., 15 refs. Dickins, D., Wright, B. Sea ice, Ice pileup, Offshore structures, Ice scoring, Ice bottom surface, Acoustic measuring instruments,

Profiles. Ice floes.

Growth and decay of "Katie's floeberg". Barrett, S.A., et al, UAG R-256, Fairbanks, University of Alaska, Geophysical Institute, Mar. 1978, 34p., 5 refs.

Stringer, W.J. Ground ice, Pack ice, Ice growth, Ice deterioration, Wind factors, Surface temperature, Remote sensing.

Magnetic markers for glacier mass balance and velocity measurements. Harrison, W.D., et al, UAG R-254, Fairbanks, Univer-

sity of Alaska, Geophysical Institute, Mar. 1978, 45p.,

MacKeith, P., Ferguson, S.A.

Glacier mass balance, Glacier flow, Velocity, Markers, Magnetic surveys, Accuracy.

How Montreal copes with 98 inches of snow. Goodman, E., Civic public works, Sep. 1978, p.20-21,

Snow removal, Canada-Quebec-Montreal.

Numerical simulation of jet roof geometry for snow cornice control.

Dawson, K.L., et al, U.S. Rocky Mountain Forest and Range Experiment Station, Fort Collins, Colorado.
U.S. Forest Service research paper, Mar. 1979, RM-206, 19p., 5 refs. Lang, T.E.

Snow cornices, Air flow, Mountains, Mathematical models. Environment simulation.

Frost gauges and freezing gauges. Banner, J.A., et al, Canada. National Hydrology Research Institute. Paper, 1979, No.3, 18p., In English with French summary. 9 refs. with French summary. 9 refs.
Van Everdingen, R.O.
Measuring instruments, Soil freezing, Frost, Temper-

ature measurement, Electrical resistivity.

34-780

Uplift of objects by an upfreezing ice surface.

Mackay, J.R., et al, Canadian geotechnical journal,

14 refs. marv.

Burrous, C.
Ground ice, Frost heave, Active layer, Continuous permafrost.

34-781

34-781
Study of sub-seabottom permafrost in the Beautort
Sea Mackenzie Delta by hydraulic drilling methods.
MacAulay, H.A., et al, Canada. Geological Survey.
Open file report, Spring 1978, No.624, c.45 leaves, in
English with French summary. 5 refs.
Offshore drilling, Hydraulics, Subsea permafrost,

14.782

Road insulation with polystyrene foam.

Gandahl, R., Sweden. Statens vag- och trafikinstitut. Rapport, 1979, No.180, 32p., 7 refs. For Swedish original see 32-691.

Subgrade preparation, Thermal insulation, Frost heave, Cellular plastics.

34-783

Measures against skidding on icy and snow roads. Problem analysis, state-of-the-art review and need for R&D. [Atgarder mot sno- och ishalka. Problema-

Carlsson, G., Sweden. Statens vag- och trafikinstitut. Rapport, 1979, No.182, 52p.
Snow removal, Ice removal, Skid resistance, Safety.

Remote estimation of the properties of sea ice, impulse radar study of Luke Melville, Labrador.
Butt, K.A., et al, Memorial University of Newfoundland. Centre for Cold Ocean Resources Engineering.
C-CORE publication, Aug. 1979, No.79-7, c.215 leaves, 7 refs.
Gambera LB. Rossiter, LB.

Gamberg, J.B., Rossiter, J.R. Sea ice, Radar echoes, Remote sensing, Computer applications.

Iceherg population distribution study in the Labrador

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Hallstones, Dynamic properties, Falling bodies, Physical properties.

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Radioactivity, Fallout, Precipitation (meteorology), Environmental impact, Denmark—Faroe Islands.

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Ice crystal structure, Molecular structure, Ice water interface, Melting, Thermodynamics, Freezing, Heavy water, Crystals.

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lanches, Snow line.

34-791

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Mapping, Avalanches, Landslides, Slope processes. 34-792 Avalanches of the USSR and their influence on the

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Avalanches, Landscape development, Alpine landscapes, Damage. 34.793

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Avalanche triggering, Explosion effects.

34-794

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gion, USSR. Turmanina, V.I., et al, Arctic and alpine research, May 1978, 10(2), p.325-334, 5 refs. Volodina, E.R.

Alpine landscapes, Plant ecology, Ecosystems, Biomass, Slope processes, Avalanches.

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tion.

34-800

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Trees (plants), Forest lines, Snow line, Climate, Periodic variations.

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Agakhaniants, O.E., et al, Arctic and alpine research, May 1978, 10(2), p.397-407, 37 refs.

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Floating ice, Dynamic loads, Velocity. The critical velocities of loads moving over floating ice plates have been determined by several authors. In all these analyses

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it was assumed that the in-plane force field in the ice cover is zero. However, due to constrained thermal strains, in-plane forces do occur in the field. The purpose of the present paper is to determine their effect upon the critical velocities of the moving loads. It is shown that a uniform compression force field reduces the critical velocity, whereas a tension force has the opposite effect

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Mortars. Cements, Cement admixtures, Frost resistance, Seasonal freeze thaw.

34-806

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Hydraulic structures, Earth dams, Frozen fines, Permafrost beneath structures.

34-807

Concepts and variables in the thermal stability theory of bailding walls. [O poniatiiakh i velichinakh teorii teploustotchivosti ograzhdaiushchikh konstruktsii

Nasedkin, V.V., Russia Ministerstvo vysshego i Nasconn, V. N. Russia. Ministersivo vyssnego i srednego spetsial'nogo obrazovaniia. Izvestiia vys-shikh uchebnykh zavedenii. Stroitel'stvo i arkhitek-tura, 1979, No.4, p.101-106, In Russian. 13 refs. Walls, Thermal conductivity, Theories, Buildings.

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Pavements, Bitumens, Foundations, Concretes, Winter concreting, Roads.

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34-811

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Pliusnin, A.M. et al. Alademiia nauk SSSR lady, 1979, 247(3), p.700-703, In Russian. Pogrebniak, IU.F., Tat'iankina, E.M.

Mining, Gold, Solutions, Freeze thaw cycles, Meltwater, Phase transformations, Water chemistry, Isotope analysis.

Railway track switch that operates in snow and ice. Coveney, D.B., National Research Council, Canada. Division of Mechanical Engineers and the National Aeronautic Establishment. Quarterly bulletin, July 1979, No.2, p.25-73, 6 refs.
Railroad equipment, Cold weather operation, Snow

accumulation, Ice accretion, Railroad switches.

34-813

Program and abstracts.

International Polar Meeting, 11th, Berlin, Oct. 4-7, 1978, Berlin, Deutsche Gesellschaft für Polarforschung, 1978, c50p., In German and English. Refs.

Glaciology, Marine biology, Geomorphology, Cli-

mate, Tundra, Meetings.

The work program of the 11th International Polar Meeting marking the 150th anniversary of the Berlin Geographical Society, consisted of studies of the Arctic and Antarctic. This volume of abstracts of papers presented at the meeting includes the following topics: glaciology, marine biology (special attention to krill), geomorphology, climatology and tundra ecosystem. Scientists from the U.S., Argentina, Germany, Austria and Canada participated.

34-814

Proceedings.

Froceenings.

Symposium on Meteorological Observations from Space: Their Contribution to the First GARP Global Experiment, Philadelphia, June 8-10, 1976, Boulder, Colo., National Center for Atmospheric Research, Sep. 1976, 424p., Refs. For selected articles see 34-815 through 34-821, or F-22387 through F-22389 and 12-2300.

Sea ice, Snow cover, Climate, Spaceborne photogra-

The symposium, the proceedings of which are presented in this volume, was held to review the status of the global observing system coming into being to support the First GARP Global Experiment. The papers and abstracts are assembled in six sessions. The list of topics of the various sessions represent those special kinds of space-based observations that are needed to special kinds of space-based observations that are needed to complement ground-based observations in order to meet the observational requirements for the First GARP Global Experiment. The topics of the sessions are: Temperature and humdity fields derived from sa'ellite observations; Surface characteristics of importance to weather and climate; Wind determination from geostationary satellites; Role of the earth's radiation budget in atmospheric dynamics; Data collection systems and some programmatic developments; and Application of satellite data to numerical analysis and prediction.

Characteristics of antarctic sea ice as determined by

Zwally, H.J., et al. Symposium on Meteorological Observations from Space: Their Contribution to the First GARP Global Experiment, Philadelphia, June 8-10, 1976, Proceedings, Boulder, Colo., National Center for Atmospheric Research, Sep. 1976, p.94-97.

Wilheit, T.T., Gloersen, P., Mueller, J.L.

Sea ice distribution, Polynyas, Ocean currents, Wind

Features of the antarctic sea ice, such as detailed variations in ice extent and areas of ice divergence induced by winds or ocean currents, can be discerned in microwave images. Images with resolutions of about 30 km are produced from the Electrically Scanning Microwave Radiometers (ESMR) having waveringths of 1.55 cm on Nimbus 5 and 0.81 cm on Nimbus 6. For the GARP data system tests, weekly maps of sea ice coverage are generated showing the percent of open water in each cell. More detailed studies of the dynamics and thermodynamics of the sea ice, and its interaction with the ocean and atmosphere, are in progress using 3-day average pseudo-color images and maps of ice boundaries. During the austral winters, pollynyas and areas of reduced ice concentration are observed. ice extent and areas of ice divergence induced by winds or ocean

34.816

Satellite observations of snow and ice with an imaging passive microwave spectrometer.

Fisher, A.D., et al, Symposium on Meteorological Ob-servations from Space: Their Contribution to the servations from Space: Their Contribution to the First GARP Global Experiment, Philadelphia, June 8-10, 1976, Proceedings, Boulder, Colo., National Center for Atmospheric Research, Sep. 1976, p.98-103. 8 refs.

Ledsham, B.L., Rosenkranz, P.W., Staclin, D.H. Sea ice, Snow cover, Brightness, Ice models, Thermal properties, Ice temperature, Snow temperature,

Spectroscopy.

Spectroscopy.

The scanning microwave spectrometer (SCAMS) on the Nimbus-6 satellite continuously maps the terrestrial surface and yields brightness temperatures which are a function of the distribution and character of various types of snow and ice, including microstructure and subsurface profiles in refractive index, loss (moisture, salimity) and temperature. To aid in the interpretation of this data, a model was developed to describe the propagation of incrowave intensity in a scattering medium characterized by three-dimensional random fluctuations of refractive index of salitions to present the salities to the dex in addition to non-random variations in remarkive in-perature, and loss. The model combines Maxwell's equations in the Born approximation with radiative transfer theory and has been applied to the thermal emission of snow and ice in Antarctica and Greenland

Sen ice modeling: its testing with LANDSAT and po-tential use in FGGE.

Hall, R. T., et al, Symposium on Meteorological Observations from Space: Their Contribution to the First GARP Global Experiment, Philadelphia, June 8-10, 1976, Proceedings, Boulder, Colo., National Center for Atmospheric Research, Sep. 1976, p.104-109, 9

Maykut, G.A., Rothrock, D.A.
Sea ice, Stresses, Ice models, Ice cover thickness,
Heat transfer, Remote sensing, Mass balance, AlD-JEX.

34-818

Global variation of snow and ice extent.

Kukla, G.J., Symposium on Meteorological Observa-tions from Space: Their Contribution to the First GARP Global Experiment, Philadelphia, June 8-10, 1976, Proceedings, Boulder, Colo., National Center for Atmospheric Research, Sep. 1976, p.110-115, 23

Snow cover distribution, Sea ice, Ice cover, Charts, Climate.

Snow in the northern hemisphere formed earlier in the year and Snow in the northern hemisphere formed earlier in the year and covered a substantially larger area on an annual average during 1971-73 than in the rest of the 1967-1975 interval. The differences are largest in autumn and spring. The anomaly was associated with diminished summer ice coverage in the Barents Sea and more snow in Central Asia. Preliminary examination of antarctic ice charts indicates a similar fluctuation apparently in phase with the northern hemisphere. (Auth.)

Monitoring earth surface characteristics important to weather and climate with earth satellites.

McClain, E.P., Symposium on Meteorological Observations from Space: Their Contribution to the First GARP Global Experiment, Philadelphia, June 8-10, 1976, Proceedings, Boulder, Colo., National Center for Atmospheric Research, Sep. 1976, p.129-135, 48

Sea ice distribution, Snow cover distribution, Ice

Sea ice distribution, Snow cover distribution, Ice cover thickness, Spaceborne photography.
Many of the observational requirements specified for the First GARP Global Experiment and for the GARP Climate Dynamics Subprogram are variables classified as Earth surface characteristics. Many of these characteristics are such that the required space and time resolutions of the observational data can be met only with the aid of data gathered by Earth satellites Among the variables in question are sea, ice, and land surface temperature; snow conditions; sea ice conditions; wind stress over the ocean and surface currents; and soil moisture. This paper reviews progress in satellite data applications with respect to the monitoring of these surface characteristics, with emphasis upon the use of operational environmental satellites of the USA. The satellite-documented drift of an antarctic iceberg is illustrated and briefly discussed.

Satellite ice surveillance studies in the Arctic in relationship to the general circulation.

Haupt, I., et al, Symposium on Meteorological Observations from Space: Their Contribution to the First GARP Global Experiment, Philadelphia, June 8-10, 1976, Proceedings, Boulder, Colo., National Center for Atmospheric Research, Sep. 1976, p.179-187, 4 refs.

Ice conditions. Sea ice distribut. on. Atmospheric cir-

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Gillespie, C.R.
Sea ice, Drift, Measuring instruments, AIDJEX.

34-822

Seasonal rhythms in alpine tundra plant communities of the Urals. Sezonnaia ritmika rastite. kh soobsh-chestv gornykh tundr Urala, Gorchakovskît, P.L., et al, *Ekologiia*, July Aug. 1979,

No.4, p.16-24, In Russian. 12 refs.

Bulatova, I.K.

Plant ecology, Alpine tundra, Ecosystems.

Regularities governing altitudinal distribution of steppe plant communities in Alashsk plateau, Tuva Autonomous Region. (Zakonomernosti vysotnogo raspredeleniia stepnykh soobshchestv Alashskogo plato Tuvinskoi ASSR<sub>1</sub>, Namzalov, B.B., Ekologiia, July-Aug. 1979, No.4, p.43-52, In Russian. 10 refs.

Alpine landscapes.

Landscape-ecological basis for forest melioration and biological recultivation of lands along the Tobol'sk-Amudar'ya channel. rK landshaftno-ekologicheskomu obosnovaniiu lesomelioratsii i biologicheskoi rekul'tivatsii zemel' po trasse kanala Tobol'sk-Amudar'ia<sub>1</sub>, Chibilev, A.A., Ekologiia, July-Aug. 1979, No.4, p.91-93. In Russian.

Land reclamation, Forestry, Swamps, Taiga

Problems in swamp hydrology. [Voprosy gidrologii

Novikov, S.M., ed, Leningrad. Gosudarstvennyi gi-drologicheskii institut. Trudy, 1979, Vol.261, 134p., In Russian. For selected papers see 34-826 through 34-834. Refs. passim. Swamps, Microrelief, Geocryology, Permafrost dis-

tribution, Permafrost structure, Active layer, Perma-frost hydrology, Evaporation, Subsurface drainage, Surface drainage, Thermal analysis.

Nature and classification of palsa bogs. [O prirode i

klassifikatsii bugristykh bolot, Novikov, S.M., et al, Leningrad. Gosudarstvennyi gi-drologicheskii institut. Trudy, 1979, Vol. 261, p.3-13. In Russian. 14 refs. Usova, L.I.

Swamps, Microrelief, Geocryology, Hummocks, Permafrost hydrology, Ground ice.

Microrelief identification criteria of palsa bogs. [Deshifrovochnye priznaki bolotnykh mikrolandshaftov

Novikov, S.M., et al, Leningrad. Gosudarstvennyi gi-drologic heskii institut. Trudy. 1979, Vol.261, p.14-26, In Russian. 6 refs.

Usova, L.I. Swamps, Aerial surveys, Photointerpretation, Geobotanical interpretation, Hummocks, Peat, Vegetation patterns.

34-828

Studying water level regime of palsa bogs. rK voprosu izuchenija urovennogo rezhima vod bugristykh bolot, Moskvin, IU.P., Leningrad. Gosudarstvennyi gi-drologicheskii institut. Trudy. 1979, Vol.261, p.27-37, In Russian. 3 refs. Swamps, Microrelief, Hummocks, Ground water, Wa-

ter table, Permafrost hydrology, Permafrost structure.

Calculating water level of palsa bogs from meteorological data. [Metodika rascheta urovnel vody bugristykh bolot po meteorologicheskim dannym, Novikov, S.M., et al, Leningrad. Gosudarstvenny'i gidrologicheskii institut. Trudy, 1979, Vol.261, p.38-49, In Russian. 6 refs.

Kotova, L.V. Swamps, Hummocks, Permafrost hydrology, Thermal regime, Water table, Meteorological data. 34-830

Calculating evaporation from lakes in permafrost areas of the West Siberian Plain. K raschetu ispareniia s ozer zony mnogoletnej merzloty Zapadno-

Sibirskot ravniny, Kachalova, T.V., Leningrad, Gosudarstvennyi gi-drologicheski institut. Trudy, 1979, Vol.261, p.50-60, In Russian. 3 refs.

Lakes, Permafrost beneath lakes, Evaporation.

Evaporation and runoff from undrained swamps in years with different moisture conditions. [Isparenie i stok s neosushennykh bolot v gody s razlichnot uvlazh-

Bavina, L.G., Leningrad. Gosudarstvennyi gidrologi-cheskh institut. Trudy, 1979, Vol.261, p.61-73, In Russian. 13 refs. Swamps, Water table, Evaporation, Runoff, Meteoro-

logical factors.

34.832

Heat accumulation and thermal cycles of oligotrophic peat bogs. [Teploakkmuliatsiia i teplooborot v tor-fianoi zalezhi oligotrofnykh bolotnykh massivov], Kaliuzhnyl, I.L., Leningrad. Gosudarstvennyl gi-drologicheskii institut. Trudy, 1979, Vol.261, p.81-89, In Russian. 2 refs. Swamps, Biomass.

34-833

Reliability of experimental determination of basic hydrologic characteristics of swamps. [Metody otsenki nadezhnosti eksperimental'nogo opredeleniia osnovnadeznnosti eksperimental nogo opredelenila osnov-nykh gidrologicheskikh kharakteristik bolota. Baliasova, E.L., Leningrad. Gosudarstvennyi gi-drologicheskii institut. Trudy, 1979, Vol.261, p.96-109, In Russian. 4 refs. Swamps, Peat, Microrelief, Permafrost hydrology, Active layer, Drainage, Water balance.

Determining the volume of measurements for cal-culating water permeability of active layers in swamps. (Ob opredelenii neobkhodimogo ob''ema iz-

merenii diia vychisleniia vodoprovodimosti deiatel-nogo sloia neosushennykh boloty, Baliasova, E.L., Leningrad. Gosudarstvennyi gi-drologicheskii institut. Trudy, 1979, Vol.261, p.110-115. In Russian. 7 refs. Swamps, Active layer, Peat, Water retention, Perme-

Road maintenance equipment. [Oborudovanie dlia soderzhaniia dorogi, Smirennyl, I., et al, Avtomobil'nye dorogi, Aug. 1979, No.8, p.32-33, In Russian.

Volokhonskii S

Roads, Winter maintenance, Snow removal.

Road construction in West Siberia. Stroitel'stvo construction in west Siberia. (Strotterstvo dorog v Zapadnot Sibiris, Cherednikov, IU.P., Aviomobil'noe stroitel'stvo, July 1979, No.7, p.3-5, In Russian. Roads, Roadbeds, Permafrost beneath roads, i'arthwork, Construction equipment.

Reconstruction of the Dnepropetrovsk-Nove moskovsk highway. [Rekonstruktsiia dorogi Dner opetrovsk-Novomoskovsk<sub>1</sub>, Grishchenko, N.I., et al, Avtomobil'nye dorogi. July

1979, No.7, p.15-16, in Russian.
Roads, Cold weather construction, Roadbeds, Ther-

mal insulation, Earthwork.

Equipment for marking road pavements. [Komplekt oborudovaniia dlia razmetki dorogj, Nisnevich, A.IA., et al, Avtomobil'nye dorogi, July 1979, No.7, p.19-20, In Russian. Roads, Plastics, Pavements, Markers.

Eliminating seasonal fluctuations in construction. [O likvidatsii sezonnosti v dorozhnom stroitel'stvej, Fedorov, V., Avtomobil'nye dorogi, July 1979, No.7, p.31-32, In Russian. Meetings, Roads, Cold weather construction, Roads, Embankments, Permafrost beneath roads.

34-840

Effects on timbe: utting and revegetation on snow accumulation and melt in North Idaho.
Haupt, H.F., U.S. Intermountain Forest and Range Experiment Station, Ogden, Utah. USDA Forest Service research paper, June 1979, INT-224, 14p., 11

Snow accumulation, Snowmelt, Forest lines, Revegetation, Slope orientation, Trees (plants), Human fac-

Optical properties of young sea ice.
Perovich, D.K., Washington (State). Univer
Department of Atmospheric Sciences. Scientific port, Aug. 1979, No.17, 151p., Refs. p.135-140.
Sea ice, Young ice, Ice optics. University.

Evaluation of automotive engine preheaters as a technique to control cold start carbon monoxide emissions -a final report.

Leonard, L.E., et al, College, Alaska, Scarborough and

Associates, Sep. 1978, 76p., 12 refs. Scarborough, T., Black, H. Air pollution, Engines, Heating, Cold weather operation, Motor vehicles, Carbon monoxide, Exhaust gases.

34.843

Carbon monoxide emissions from moving vehicles in

Fairbanks, Alaska. Leonard, L.E., Alaska. University. Geophysical Institute. Report, Aug. 1977, UAG R-252, 45p., 10

Air pollution, Engines, Cold weather operation, Motor vehicles, Carbon monoxide, Research projects, Exhaust gases, United States—Alaska—Fairbanks.

Engineering at the ends of the earth; polar ocean technology for the 1980's.

National Research Council. Marine Board. Assembly of Engineering, Washington, D.C., National Academy of Sciences, 1979, 74p., 46 refs. Economic development, Sea ice, Icebergs, Research

Economic development, Sea ice, Icebergs, Research projects, Engineering.

This report is a review of polar ocean engineering research and technology that are considered necessary to the support of commercial and scientific operations in the Arctic and Antarctic during the 1980's. In presenting the panel's view of the critical national needs in polar ocean engineering, the report identifies and examines the technical deficiencies in today's state of the art and recommends ways of improving the situation. For the Antarctic, major attention is directed toward the technology necessary for harvesting krill and considerations involved in the exploitation of antarctic icebergs.

Hydrologic problems of environmental changes in West Siberia. Goidrologicheskie problemy preobrazovaniia prirody Zapadnol Sibiri, Malik, L.K., Moscow, Nauka, 1978, 180p., In Russian with English table of contents enclosed. Refs. p.126-122

Swamps, Water pollution, Land reclamation, Envi-ronmental protection, Flood control, Human factors engineering, Flood plains.

34-846

Snow cover in the USSR. (Snezhnyl pokrov na ter-

ritorii SSSR<sub>1</sub>, Kopanev, I.D., Leningrad, Gidrometeoizdat, 1978, 181p., in Russian with English table of contents en-closed. 48 refs.

Snow surveys, Measuring instruments, Snow density, Snow cover distribution, Snow water equivalent, Snow melting, Forest canopy, Snow water content, Meteorological data, Meteorological charts.

Water supply and sewage at the Baykal Amur rail-road. (Vodosnabzhenie i kanalizatsiia na Baikalo-

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Concretes, Concrete aggregates, Concrete structures, Concrete strength, Frost resistance, Porosity, Capillarity.

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34.854

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Studying stability of the algorithm of a mixed varia-tional-pivotal method in designing arch dams for temperature effects. [Issledovanie ustoIchivosti algoritma smeshannogo variatsionno-sterzhnevogo metoda v sluchae rascheta arochnykh plotin na temperaturnye

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value problems, Analysis (mathematics). Presented in this paper is the theory of the steady in-plane deformation, obeying the Coulomb yield criterion, of plastic soils whose strain rate and stress principal directions are non-coaxial. The constitutive equations including an unknown noncoaxial angle are derived by use of the geometry of the Mohr circle and the theory of characteristic lines. A boundary value problem is solved by assigning to the non-coaxial angle a set of such values that enable us to accommodate the presupposed type of flow satisfying the given boundary conditions in a given domain. The plastic material regulated by the Coulomb yield criterion in in-plane deformation is, therefore, a singular material whose constitutive equations are not constant singular material whose constitutive equations are not constant with material but are variable with flow conditions.

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Crory, F.E., Northern engineer, Fall 1978, 10(3), MP 1253, p.13-15, 1 ref. Aircraft landing areas.

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northern Alaska. Lawson, D.E., et al, Northern engineer, Fall 1978, 10(3), MP 1254, p.16-23, 16 refs. Brown, J.

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Ocean environments, Lakes, Infrared reconnaissance,

Aerial surveys, Sea water, Lake water, Optical properties, Measuring instruments, Sea ice, Lake ice, Classifications.

34-876

Development of hydro-optical studies of the Lake Baykal. [Razvitie gidroopticheskikh issledovanil na Baikales.

Sherstiankin, P.P., Opticheskie metody izucheniia okeanov i vnutrennikh vodoemov (Optical methods of studying oceans and inland water bodies) edited by G.I. Galazit, K.S. Shifrin and P.P. Sherstiankin, Novosibirsk, Nauka, 1979, p.16-27, In Russian. 30

Lake water, Optical properties, Transparence, Lake ice, Snow cover, Albedo, Limnology, USSR—Baykal

34-877

Determining surface temperature gradient at the liquid phase boundary of the sea-atmosphere system. [Opredelenie poverkhnostnogo temperaturnogo perepada na granitse razdela zhidkol fazy sistemy

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protection, Taiga.

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Glacier ice, Ice surface, Atmospheric disturbances, Wind (meteorology).

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# 14.890

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Emissivity correction for interpreting thermal radiation from the terrestrial surface.

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# 14.891

Comments on the Climax and Wolf Creek Pass cloud

Comments on the Chinax and won creek 1 and Mountains.

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Smith, D.W.

Engineering, Environments, Polar regions, Bibliographies, Ecology.

# 34-893

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Campbell, I.B., Bridger, B.A.

Soil chemistry, Soil science, Organic soils, Campbell

Oxygen uptakes and nitrogen (N) mineralization were measured with samples of organic soils taken at 4 or 5 depths from tussock grasslands at 5 sites ranging in altitude from 45 to 400 m on subantarctic Campbell Island. An altitudinal sequence in chemical or biochemical properties was not evident, probably because of local site effects. Although these soils have been

shown to be potentially active biochemically, metabolism in the field would be severely restricted by the prevailing cool climate (Auth. mod.)

### 14.894

Biochemical activities of organic soils from subantarctic tussock grasslands on Campbell Island. 2. Enzyme activities.

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Speir, T.W.

Soil science, Organic soils, Soil chemistry, Campbell Island.

Island.

Invertase, amylase, cellulase, hemicellulase, urease, phosphatase, and sulphatase activities were high, on a soil dry weight basis, in the top horizon of organic soils from 6 sites on subantarctic Campbell Island. They generally declined with soil depth, more rapidly than did organic Contents. The enzyme activities were correlated negatively, and generally significantly, with degree of peat decomposition and mainly onosignificantly, although positively, with soil organic C and total N contents. All of the enzyme activities, with the partial exception of hemicellulase, were correlated significantly with each other and with soil oxygen uptakes. Most of the enzyme activities were appreciably higher in standing dead material of the tussock grass. Pow Interiors than in the top horizon of soil at each site; sulphatase activity, however, was always lower in standing dead material, and urease activity varied with sit. Although a direct contribution by tussock plant material to soil enzyme activities (except sulphatase) appears likely the levels of enzymes in these soils were (except for invertase) not directly related to the enzyme activities of tussock plant material (Auth.)

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Glacier surveys, Mountain glaciers, Fallout, Glacier scellation, Climatic factors, Topogravaic factors, Himalaya Mountains.

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Higuchi, K.

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Glacier oscillation, Impurities, Glacier surveys, Mountain glaciers.

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Field experiment on glacier ablation under a layer of debris cover.

Fujii, Y., Seppyo. Special issue, 1977, Vol.39, Nagoya, Japan. University. Water Research Institute. Collected papers on sciences of atmosphere and hydrosphere, Vol.15, p.20-21, Paper No.16. 5 refs. Glacier mass balance, Ablation, Mountain glaciers, Impurities, Snow melting.

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Wushiki, H., Seppyo. Special issue, 1977, Vol.39, Nagoya, Japan. University. Water Research Institute. Collected papers on sciences of atmosphere and hydrosphere, Vol.15, p.22-25, Paper No.17. 3 refs. Stratigraphy, Glacier surveys, Seasonal variations, Radioactive isotopes, Mountain glaciers.

Stratigraphic study of the snow cover in Khumbu Himal.

Nagoya, Japan. University. Water Research Institute. Collected papers on sciences of atmosphere and hydrosphere, Vol. 15, p.26-29, Paper No. 18. 2 refs. Nagoshi, A.

Snow stratigraphy, Snow depth, Glacier surveys, Snow accumulation, Elevation.

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34-902

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Effect of nocturnal precipitation on the mass balance of the Rikha Glacier, Hidden Valley, Nepal. Higuchi, K., Seppyo. Special issue, 1977, Vol. 39, Nagoya, Japan. University. Water Research Institute. Collected papers on sciences of atmosphere and hydrophera. Vol. 15, p. 43-49. Pener No. 21, 6, refe. drosphere, Vol.15, p.43-49, Paper No.21. 6 refs. Glacier mass balance, Precipitation (meteorology), Diurnal variations, Ablation, Mountain glaciers. 34-904

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34.905

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Altitude effect on the deuterium content of the local rains and snows in the Himalayas.

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34-906

34-906
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Glacier oscillation, Glacier surges, Glaciation, Topographic factors, Climatic factors, Snow accumulation,
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34-908

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tundra as an example.
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Tundra, Models.

34-909

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Barrow, Alaska.

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Barsdate, R.J.
Tundra, Nutrient cycle, United States—Alaska—

34-910

Impact of crude oil on root respiration and levels of soluble soil cellulase in coastal Arctic tundra.

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Minerals, Tundra, Nutrient cycle, Bacteria, Decomposition, Fungi, Thermal effects, Models.

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planktonic algae in an Arctic pond.
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Chemistry and Cycling Processes, Augusta, Georgia,
April 28-May 1, 1976. Proceedings. Edited by D.C.
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No.45, Washington, D.C., U.S. Department of Energy, Technical Information Center, 1978, p.833-850,
CONF-760429, 33 refs.

Hater, G.R., Vestal, J.R.
Oil spills, Ponds, Nutrient cycle, Biomass, Algae, Plankton.

Volumetric constitutive law for snow subjected to large strains and strain rates.

Brown, R.L., U.S Army Cold Regions Research and Engineering Laboratory, Aug. 1979, CR 79-20, 13p., ADA-075 474, 10 refs.

Snow deformation, Snow compression, Volume, Strains, Strain tests, Dynamic loads, Tracked vehi-

A volumetric constitutive equation was developed to character A volumetric constitutive equation was developed to characterize the behavior of snow subjected to large compressive volumetric deformations. By treating the material as a suspension of air voids in a matrix material of polycrystalline ice, a rate-dependent volumetric constitutive law was formulated and found to accurately predict material response to pressure loads for a wide range of load rates. Comparison of the theory with shock wave data was not considered in this paper, although the constitutive law appears to be valid for such load situations. One application to oversnow mobility of tracked vehicles was made. In this case, power requirements due to snow compaction were calculated parametrically in terms of vehicle speed, track loading, and snow density. track loading, and snow density

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Forest ecosystems, Tundra, Microclimatology, Fires.

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River crossings, Ice breakup, Gas pipelines.

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moving loads.
Beltaos, S., National Research Council, Canada. Associate Committee on Geotechnical Research. Technical memorandum, May 1979, No.123, p.1-13, 5 refs. Floating ice, Dynamic loads, Ice cover thickness, Wa-

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Offshore drilling, Ice cover thickness, Artificial ice, Strains.

Results of strain measurements in floating ice platforms using 3 m-long resistance wire gauges. Masterson, D.M., et al. National Research Council.

Canada. Associate Committee on Geotechnical Scearch. Technical memorandum, May 1979, No.123, p.25-41, 10 refs. Anderson, K.G., Strandberg, A.G.

Floating ice, Strain measuring instruments.

34-923

In situ determination of creep properties of ice covers by means of bore-hole creep and relaxation tests.
Ladanyi, B., et al., National Research Council, Canada.
Associate Committee on Geotechnical Research. Technical memorandum, May 1979, No.123, p.44-64,

Barthelemy, E., Saint-Pierre, R. Ice creep, Boreholes, Relaxation (mechanics), Rheology, Ice pressure.

Grain-size influence on effective modulus of ice. Sinha, N.K., National Research Council, Canada. Associate Committee on Geotechnical Research. Technical memorandum, May 1979, No.123, p.65-79.

Ice creep, Viscoelasticity, Ice structure, Mathematical models.

34-925

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Floating ice, Ice creep, Models, Viscoelasticity.

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Floating ice, Ice strength, Strain tests.

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Floating ice, Ice creep, Time factor.

34-929

Problems related to the structural modelling of ice covers.

Tinawi, R., National Research Council, Canada. sociate Committee on Geotechnical Research. Tech-mica nicmorangum, May 1979, No. 123, p. 159-150, 26 refs

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Strandberg, A.G. Floating ice, Ice cover strength, Ice creep, Computer applications, Loads (forces).

34-931

Viscoelastic finite-element analysis of floating ice islands.

Swamidas, A.S.J., et al, National Research Council, Canada. Associate Committee on Geotechnical Re-search. Technical memorandum, May 1979, No.123, 183-204, 27 refs

Floating ice, Ice creep, Viscoelasticity, Variations, Analysis (mathematics).

34-932 Safe ice loads computed with a pocket calculator.

Nevel, D.E., National Research Council, Canada. Associate Committee on Geotechnical Research. Technical memorandum, May 1979, No.123, MP 1249, p.205-223, 3 refs.

Ice strength, Loads (forces), Computers.

This report provides a program for calculating the deflection and stresses of a floating ice sheet using a pocket calculator. The program user must select appropriate values for the ice mechanical properties in order to compute reliable deflection and stresses. Engineering judgement must be used to select the allowable ice strength and when dealing with non-ideal situations.

34-933

Use of ice as an airstrip in the Thelon River valley by

the Canadian Armed Forces.

McCutcheon, D.M., National Research Council.

Canada. Associate Committee on Geotechnical Research. Technical memorandum, May 1979, No.123. n 224-231

Ice runways, Ice (construction material), Rivers, Aircraft landing areas, Dynamic loads, Military operation.

34-934

Use of ice as structural support in the construction of Use of ice as structured the Eagle River bridge.

McCutcheon. D.M., National Research Council,

Contachnical Re-

McCutcheon, D.M., National Research Council, Canada. Associate Committee on Geotechnical Re-search. Technical memorandum, May 1979, No.123,

Ice (construction material), Bridges.

Flooding of sea ice roads

Favrat, D., et al., National Research Council, Canada. Associate Committee on Ger echnical Research. Technical memorandum. May 1979, No.123, p.238-

Kry. P.R.

Roads, Ice (construction material), Artificial ice, Sea ice. Flooding.

34-936

Porosity and gas content of recent polar ice, applications to deep core analysis. [Porosité et teneur en gaz de la glace polaire récente; applications a l'étude des

carottes prélevées en profondeur<sub>1</sub>, Lebel, B., France. Centre national de la recherche scientifique. Laboratoire de glaciologie. Publica-tion. 1978, No.255, 80p., In French. Thesis, Univ. scientifique et médicale de Grenoble. Refs. p.77-80. Ice density, Gas inclusions, Ice physics, Porosity, An-tarctica—Law Dome, Antarctica—Dumont d'Urville Station.

Field studies were done at Camp Century and at a number of locations in the Antarctic to determine porosity and gas content of ice, as they vary with depth, pressure and temperature. Short-term variations only were investigated. The effect of

geographic variations on porosity and gas inclusions was also studied. Short-term gas content changes are primarily due to the different porosities of the ice layers. Gas content variations with depth can shed light on thickness of layers in the polar caps, but the area of study must be carefully chosen. Best for this purpose are the sections between 1000 and 2000 m in the Antarctic, which reveal ice changes effected by climatic change.

34-937

Automatic apparatus for measuring low-level beta activity in snow samples. Dispositif automatique de meure de la radioactivité beta à bas-niveau d'échantillons

de neigej.
Pinglot, J.F., France. Centre National de la Rechercation, 1978, No 257, 103p., Doctoral thesis, Institut national politechnique de Grenoble. In French Refs. p.101-103

Recording instruments, Radioactivity, Snow accumulation, Snow impurities, Fallout.

lation, Snow impurities, Pailout.

This monograph concerns various low-level beta-radiation sources in snow as well as a number of methods used to determine emissions. Analysis of natural and artificial beta radiation in polar snow samples requires an automatic device to determine low levels. The laboratory being half underground and the antiradiation chamber made it possible to climinate cosmic radiation. The device is described in detail, and results of studies on polar snow (annual accumulation, dating, levels of natural and fission-product radiation) are presented.

Arctic beach environment, south-west Devon Island, N.W.T.

Owens, E.H., Hamilton, Ontario, McMaster University, 1969, 152p., M.Sc. thesis. Bibliography p.146-152

Reaches, Shoreline modification, Ocean waves, Sea ice, Fast ice, Tides, Ice push, Pressure ridges, Perma-frost depth, Canada—Northwest Territories—Devon

Temperature and the density dependences on hard-

ness of artificially compacted snow.

Kobayashi, T., Japan. National Research Center for Disaster Prevention. Report. Nov. 1978, No.20, p.267-292, In Japanese with English summary and captions. 15 refs.

Snow compaction, Snow density, Snow temperature, Snow hardness.

14.040

Batura Glacier in the Karakoram Mountains and its

Academia Sinica. Batura Glacier Investigation Group, Scientia sinica, Aug. 1979, 22(8), p.958-974.

Glucier ice, Glacier ablation, Glacier oscillation, Mapping Ice forecasting.

34.941

Report of the International Ice Patrol services in the North Atlantic Ocean, season of 1977, Knutson, K.N., et al, U.S. Coast Guard. Report, n.d.,

CG-188-32, 44p. + appends. Neill, T.J.

Sea ice, Aerial surveys, Icebergs, Ice conditions.

Problems of offshore oil drilling in the Beaufort Sea. Weller, G., et al. Northern engineer. Winter 1978, 10(4), MP 1250, p.4-11, 5 refs. Weeks, W.F.

Ice structure, Offshore drilling, Floating ice, Grounded ice, Sea ice distribution, Subsea permafrost.

Monitoring of thickness changes of the continental

ice sheets by satellite altimetry.
Brooks, R.L., Journal of geophysical research, July 30, 1979, 84(B8), p.3965-3968, 2 refs. Ice sheets, Ice cover thickness, Altitude, Ice surface,

Spacecraft

34-944 Effect of varying low level wind fields on the opening and closing of the ice cover in the western Weddell

Kyle, T.H., Madison, University of Wisconsin, 1974,

91p. Master's thesis. 26 refs. Sea ice, Ice forecasting, Wind (meteorology), Spacecraft, Ice conditions, Weddell Sea.

craft, Ice conditions, Weddell Sea.

Three forms of meteorological analysis have been used for this study: meridional sea level pressure differences, low level wind directions, and cyclonic storm positions and trajectories. The results show a statistically highly significant relationship between the east-west widths of open water and all three of the meteorological parameters stated above. Average ice/wind factors of 0.6% and 1% are obtained and compare favorably with values obtained by previous investigators. High quality satelite data and extensive satellite coverage have improved trajectory forecasts for cyclones in the Southern Ocean. Forecasts

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of wind-induced ice cover variations may therefore possibly be made for Antarctic regions affected by these synoptic systems. However, there is evidence that factors such as freezing and restricted freedom of movement for ice floes can also be impor-Therefore, an ice-open water forecast scheme should not he based on wind stress alone

14.945

Some aspects of the ice topography of Trough Lake.

southern Victoria Land, Antarctica. Lyon, G.L., New Zealand journal of geology and geo-physics, 1979, 22(2), p.281-284, 9 refs.

Lake ice, Floating ice, Ablation, Topography, Antarctica—Victoria Land.

Trough Lake has a permanent cover of floating ice. Contact which are modified by differential ablation. The estimated ablation rate of 300-450 mm of ice per year is higher than that at Lake Miers, 20 km north, due to the increased prevalence of katabatic winds at Trough Lake (Auth)

14.946

Soil formation in landscapes affected by industrial activities. [Pochvoobrazovanie v tekhnogennykh land-

shaftahh. Trofimov, S.S., ed. Novosibirsk, Nauka, 1979, 294p. In Russian. For selected articles see 34-947 through In Russian. Refs. passim

Human factors engineering. Landscape types, Aerial surveys, Mining.

Systems approach to studying soil formation processes in landscapes affected by industrial activities. (Sistemnyl podkhod k izucheniiu protsessov pochvoo-

brazovanija v tekhnogennykh landshaftakh). nykh landshaftakh (Soil formation in landscapes affected by industrial activities) edited by S.S. Trofimov, Novosibirsk, Nauka, 1979, p.3-19, In Russian. 28

Titlianova, A.A., Klevenskaia, I.L.

Mining, Landscape types, Environmental protection, Tailings, Soil formation, Human factors engineering, Systems analysis.

34-948

Parcellar structure of phytocenoses and the inhomogeneity of young soils in industrially disturbed landscapes. Partselliarnaia struktura fitotsenoza i neodnorodnost molodykh pochv tekhnogennykh

landshaftovj. Taranov, S.A., et al, Pochvoobrazovanie v tekhnogen nykh landshaftakh (Soil formation in landscapes affected by industrial activities) edited by S.S. Trofimov. Novosibirsk, Nauka, 1979, p.19-57, In Russian.

Forest soils, Mining, Rock excavation, Tailings.

34-949

Young soils formed in placer tailings in the southern taiga of the Central Urals. (O molodykh pochvakh, formiruiushchikhsia na otvalakh otrabotannykh ros-

sypel v podzone iuzhnol talgi Srednego Urala<sub>1</sub>, Nakariakov, A.V., et al. Pochvoobrazovanie v tekh-nogennykh landshaftakh (Soil formation in landscapes affected by industrial activities) edited by S.S. Trofi-mov, Novosibirsk, Nauka, 1979, p.58-106, In Russian. 29 refs

Trofikov, S.S.

Placer mining, Taiga, Tailings, Soil formation, Soil profiles.

34.950

Productivity of soils in meadow biogeocenoses of recultivated dredging areas in the Central Urals. [Osobennosti funktsionirovaniia bloka "pochva" v lugovykh biogeotsenozakh, rekul tivirovannykh drazhnykh otvalov Srednego Uralaj, Nakariakov, A.V., et al, Pochvoobrazovanie v tekh-

nogennykh landshaftakh (Soil formation in landscapes affected by industrial activities) edited by S.S. Trofi-mov, Novosibirsk, Nauka, 1979, p.106-123, In Rus-23 refs. Sidorova, A.A.

Human factors engineering, Mining, Dredging, Tailings, Soil formation, Revegetation, Meadow soils, Soil microbiology, Soil chemistry.

34-951

Initial soil formation processes developing on rock tailings of the Lipovskoe nickel mine. ¡Nachal'nye protsessy pochvoobrazovaniia na porodnykh otvalakh Lipovskogo mestorozhdeniia nikeliaj,

Makhonina, G.I., Pochvoobrazovanie v tekhnogennykh landshaftakh (Soil formation in landscapes affected by industrial activities) edited by S.S. Trofimov, Novosibirsk, Nauka, 1979, p.123-140, In Russian. 15

Human factors engineering, Mining, Tailings, Soil formation, Taiga.

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Natural revegetation of the Tom' River flood-plain soils disturbed by industrial activities. ¿Usloviia es-testvennol regeneratsii pochy v narushennykh pro-myshlennost'iu landshaftakh poimy verkhnego techeniia r. Tomij, Taranov, S.A., et al, Pochvoobrazovanie v tekhnogen-

nykh landshaftakh (Soil formation in landscapes affected by industrial activities) edited by S.S. Trofimov, Novosibirsk, Nauka, 1979, p.156-163, In Russian.

Fatkulin, F.A., Rodyniuk, I.S. Mining, Revegetation, Tailings, Soil formation, Flood

34-953

Early diagenesis and growth of wild and semi-cultivated plants on tailings of the Kuzbass coal mines. (Singenez i produktivnost) estestvennol rastitel nosti i polukul'tur fitotsenozov na otvalakh ugol'nykh raz-

rezov Kuzbassaj. Kondrashin, E.R., Pochvoobrazovanie v tekhnogen-nykh landshaftakh (Soil formation in landscapes affected by industrial activities) edited by S.S. Trofimov, Novosibirsk, Nauka, 1979, p.163-172, In Russian. 11

Taigs.

34-954

Reforestation of coal mine tailings in the southern Kuzbass. (Lesovozobnovlenie na porodnykh otvalakh ugol'nykh razrezov IUzhnogo Kuzbassa). Barannik, L.P., et al, Pochvoobrazovanie v tekhnogen-

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Kandrashin, E.R.

Taiga.

34-955

Oxidizing activity of microorganisms in recultivated tailings of the Baydaevskiy coal mine (Kuzbass). [Mikroorganizmy rekul tiviruemykh otvalov Baldaevskogo uglerazreza v Kuzbasse i ikh okislitel'naia ak-

Kulebakin, V.G., Pochyoobrazovanie v tekhnogennykh landshaftakh (Soil formation in landscapes affected by industrial activities) edited by S.S. Trofimov. Novosibirsk, Nauka, 1979, p.179-185, In Russian.

Mining, Coal, Tailings, Revegetation, Soil microbiology, Taiga.

34-956

Aerial reconnaissance of landscapes affected by industrial activities. [Vozmozhnosti primeneniia aerometodov pri analize tekhnogennykh landshaftov]. Solntseva, N.P., et al. Pochvoobrazovanie v tekhnogennykh landshaftakh (Soil formation in landscapes affected by industrial activities) edited by S.S. Trofi-mov, Novosibirsk, Nauka, 1979, p.258-278, In Rus-6 refs

Nikolaeva, L.P. Human factors engineering, Aerial surveys, Landscape types, Photointerpretation, Mining, Tailings, Revegetation.

34-957

Usefulness of aerial photography in evaluating lands Osetuness of serial photography in evaluating lands in the Lake Baykal area of the BAM zone. [Isclesoobraznost' primeneniia aerofotometodov dlia otsenki zemel'nykh resursov v pribatkal'skol zone BAM, Parshikov V.P., Pochvoobrazovanie v tekhnogennykh landshaftakh (Soil formation in landscapes affected by industrial activities) edited by S.S. Trofimov, Novosibirsk, Nauka, 1979, p.278-285, In Russian. 10 refs. Taiga, Aerial surveys, Photointerpretation, Land de-

velopment, Baykal Amur railroad.

34-958 Prognosis of rational use and protection of renewable natural resources in the Far North. (Prognoz izu-cheniia i okhrany vosproizvodimykh prirodnykh resursov Krainego Severa), Gel'berg, M.G., et al, Ekologicheskoe prognozirovanie

(Ecological prognostication) edited by N.N. Smirnov, Moscow, Nauka, 1979, p.14-51, In Russian with Eng-

lish summary. 12 refs.

Tundra, Environmental protection, Taiga, Ecosystems, Biologic cycles.

34.040 Upwelling: oceanic structure at the edge of the Arctic

Germels in winter.

Buckley, J.R., et al, Science, Jan. 12, 1979, 203(4376), p.165-167, 8 refs.

Gammelsröd, T., Johannessen, J.A., Johannessen, O.M., Röed, L.P.

Upwelling, Oceanography, Pack ice, Ice edge.

Detection of ice at sea by radar.

Williams, P.D.L., Radio and electronic engineer, June 1979, 49(6), p.275-287, 53 refs.

Sea ice distribution, Ice detection, Radar echoes,

Ocean waves, Wind (meteorology), Sea clutter.

Temporary tunnel support by artificial ground freez-

Discussion. Brahma, C.S., American Society of Civil Engineers. Geotechnical Engineering Division. Journal, Oct. 1979, 105(GT10), p.1260-1262, 3 refs. For paper un-der discussion see 33-644.

Tunneling (excavation), Soil freezing, Artificial freezing. Frozen ground strength.

Wind and snow load factors for use in LRFD. Dis-

Simu, E., American Society of Civil Engineers. Structural Division. Journal, Oct. 1979, 105(ST10), p.2130-2132, 2 refs 33-354. cussion. Simiu, E.,

Structures, Snow loads, Wind factors,

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Kovacs, A., et al, Journal of geophysical research, Sep 20, 1979, 84(C9), MP 1258, p.5749-5759, 4 refs. Morey, R.M.

Sea ice, Radar echoes, Ice crystal structure, Ocean currents. Dielectric properties, Anisotropy.

currents, Dielectric properties, Anisotropy.
Results of impulse radar studies of sea ice near Prudhoe Bay, Alaska, show that where there is a preferred current direction under the ice cover, the crystal structure of the ice becomes highly ordered. This includes a crystal structure with a preferred horizontal c axis that is oriented parallel with the local current. The radar studies show that this structure behaves as an anisotropic delectric. The result is that when electromagnetic energy is radiated from a dipole anienna in which the E field is oriented perpendicular to the c axis azimuth, no bottom reflection is detected. It was also found that the frequency dispersion of anisotropic sea ice varies in the horizontal plane. This is demonstrated by the center frequency of the reflected signal spectrum, which is maximum in the preferred c axis direction and minimum perpendicular to it. In addition, it was found, that the frequency dispersion is related to the average bulk brine volume of the ice but that the bulk dielectric constant of the ice, as determined from impulse travel time, shows little of the ice, as determined from impulse travel time, shows little correlation with the coefficient of anisotropy.

Impact of waste diversion on water quality in lakes. Freedman, P.L., et al, American Society of Civil Engineers. Environmental Engineering Division. nal, Oct. 1979, 105(EE5), p.867-881, 15 refs. Canal, R.P.

Lake water, Waste disposal, Water treatment, Water chemistry.

Is there liquid water on Europa.

Cassen, P., et al, Geophysical research letters, Sep. 1979, 6(9), p.731-734, 21 refs.

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Extraterrestrial ice. Water. Atmospheric physics.

Ice-foot processes. Observations of rocky coast, Disko, West Greenland. Observations of erosion on a

Nielsen, N., Zeitschrift für Geomorphologie, Sep. 1979, 23(3), p.321-331. In English with French and German summaries. 13 refs.

Ice erosion, Tides, Shore erosion, Rocks, Cracking

34-967

34-967 Vegetation of the West Okhotsk area. [Flora i rastitel'nost' Zapadnogo Priokhot'ia], Shlotgauer, S.D., Moscow, Nauka, 1978, 132p., In Russian with English table of contents enclosed. Refs. p.116-119.

Alpine landscapes, Alpine tundra, Tundra, Charts, USSR—Zeya River.

Forest tundras of the USSR. [Tundroles'e SSSR], Parmuzin, IU.P., Moscow, Mysl', 1979, 295p., In Russian with English table of contents enclosed. Refs.

p.287-294. Forest tundra, Tundra

Studying and modeling soil formation in forest bi-

ogeocenoses. (Issledovanie i modelirovanie pochvoo-brazovaniia v lesnykh biogeotsenozakh), Korsunov, V.M., ed, Novosibirsk, Nauka, 1979, 161p., In Russian. For selected papers see 34-970 through In Russian. For selected papers se 34-978. Refs. passim. Taiga, Soil profiles, Soil formation.

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34-970

Interrelation between edaphic and coenotic factors of cropping power. (O vzaimosviazi edaficheskikh i tsenoticheskikh faktorov produktivnostij, Pleshikov, F.I., Issledovanie i modelirovanie pochvoo-

brazovaniia v lesnykh biogeotsenozakh (Studying and modeling soil formation in forest biogeocenoses) ed-ited by V.M. Korsunov, Novosibirsk, Nauka, 1979, p.4-13, In Russian. 8 refs. Forest ecosystems, Talga.

34-971
Effect of maintenance felling on soil microflora in Pinus (cembra) sibirica forests. [Vliianie rubok ukhoda na mikrofloru pochy v kedrovnikakh]. Vishniakova, Z.V., et al, Issledovanie i modelirovanie pochyoobrazovaniia v lesnykh biogeotsenozakh (Studying and modeling soil formation in forest biogeocenoses) edited by V.M. Korsunov, Novosibirsk, Nauka, 1979, p.14-22, In Russian. 17 refs. Ermolenko, L.G. Taiga Biomass

Taiga, Biomass.

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nykh pozharovy. Popova, E.P., Issledovanie i modelirovanie pochvoobrazovaniia v lesnykh biogeotsenozakh (Studying and modeling soil formation in forest biogeocenoses) edited by V.M. Korsunov, Novosibirsk, Nauka, 1979, p.23-29, In Russian. 3 refs.

Forest fires, Soil water, Taiga, Surface temperature.

Model experiments for determining the role of pine in the formation of variegated forest soils. [Model'nye opyty po vyiavleniiu roli sosny v formirovanii pochennol pestroty v lesuj.

Vedrova, E.F., Issledovanie i modelirovanie pochvoo-brazovaniia v lesnykh biogeotsenozakh (Studying and modeling soil formation in forest biogeocenoses) edited by V.M. Korsunov. Novosibirsk, Nauka, 1979, p.30-42, In Russian. 9 refs.

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In this paper, the measured physical properties of core to be drock taken at Cape Folger, East Antarctica, are used to comor this paper, the measured physical properties of core to bedrock taken at Cape folger. East Antarctica, are used to compute a depth-reflection coefficient profile for comparison with observed radio-echo reflections. The measurements available on physical properties are density variations, bubble size and shape changes, and crystal fabric variations. In calculations to the calculated dielectric property changes corresponding to the calculated dielectric property changes corresponding to the highest observed reflection coefficients. However, bubble changes alone can also account for reasonable, though lower, reflection coefficients at the depths corresponding to observed reflection locations. The close correspondence between the depths of the bubble shape changes (which are definitely deformational features) and the depths of the density variations, and between both of these and the radio-echo layers, indicates that deformational events in the ice sheet's history are represented by the variations in physical properties and associated radio-echo records. (Auth. mod.) 34-1000

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cles. Antarctica-South Pole.

Snow composition, Patiout, Isotope analysis, Particles, Antarctica—South Pole.

Snow samples were taken from a 5-m-deep pit located near the South Pole station in Jan. 1975, and continuous deuterium, ritium and beta activity profiles have been obtained from them. The first artificial tritium, due to the 1952 by experiments, was detected during 1954. A two-year delay between explosions and fallout suggests that the tritium fallout is related to the main nuclear tests from 1952 to 1960. A stratospheric half residence time equal to 20 months is deduced from the fallout decrease occurring after the 1966 peak. For the French southern hemisphere experiments, it is about one year. A sharp tritium decrease is observed after a high 1973 peak, providing a new tritium reference level for future glaciological studies in Antarctica. The beta and tritium peaks occur respectively during the antarctic summer and the antarctic winter, showing different injection mechanisms. This winter input and the high tritium values registered at the South Pole indicate a preferential tritium transfer over the pole area. Two mechanisms stratospheric-tropospheric exchange and direct stratospheric cloud precipitation, could account for this injection. (Authmod.)

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Hydrology, Water balance, Models, Water flow, Reservoirs.

34-1041

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Harbage, A.B., Jr., U.S. Naval Ship Research and Development Center. Report, Oct. 1979, DTNSRDC-79-085, 35p. ADA-076-308.
Sealing, Ice (construction material), Ice formation,

Shafts (machine elements).

34-1043

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collapsible fuel storage tanks. Sicka, R.W., et al, Akron, Ohio, Firestone Tire and Rubber Co., 1979, 172p. ADA-074 824. Rubber Co., 19 Mitchell, G.B.

Polymers, Protective coatings, Storage tanks, Fuels, Low temperature tests.

34-1044

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Polynyas, Airborne equipment.

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Water temperature, Water structure, Salinity, Sea ice, Seasonal variations.

34-1048

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Peters, K.W., Monterey, California, U.S. Naval Post-graduate School, 1979, 162p., M.Sc. thesis. Sea ice, Ice acoustics, Floating ice, Noise (sound).

Proceedings of the 47th annual meeting.

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Meetings, Snow hydrology, Stream flow, Runoff forecasting, Measurement.

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Snowmelt, Water chemistry, Electrical resistivity.

34-1051

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Wendler, G., Western Snow Conference Proceedings. Apr. 1979, 47th, p 10-19, 15 refs.
Snowfall, Blowing snow, Wind (meteorology),

Climatology.

34-1052

Microwave measurements of snow stratigraphy and

water equivalence. Boyne, H.S., et al, Western Snow Conference. Proceedings, Apr. 1979, 47th, p.20-26, 2 refs. Ellerbruch, D.A.

Snow stratigraphy, Snow water equivalent, Electro-magnetic prospecting, Snow depth, Dielectric proper-

34-1053

Application of meteor burst telemetry to snow hy-

Burroughs, H.F., et al. Western Snow Conference. Proceedings, Apr. 1979, 47th, p.27-37, 3 refs. Patterson, P.E.

Snow hydrology, Telemetering equipment, Data transmission.

34-1054

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Kuehl D.W. Western Snow Conference Proceedings, Apr. 1979, 47th, p.38-47, 24 refs.

Runoff forecasting, Snow accumulation, Ablation, Models, Snow courses, Air temperature, Precipitation (meteorology).

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Stream flow, Runoff forecasting, Models, Performance.

34-1056

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in the southern Sierra Nevada. Hannaford, J.F., et al, Western Snow Conference. Proceedings, Apr. 1979, 47th, p.56-67, 10 refs. Hall, R.L., Brown, A.J.

Runoff forecasting, Snowmelt, Snow cover distribution.

34-1057

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Snow cover distribution, Spaceborne photography, Climatology.

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Soils and the productivity of plant communities. Vol.4. [Pochvy i produktivnost' rastitel'nykh soobsh-chestv. Vyp.4], Kovda, V.A., ed, Moscow, Universitet, 1979, 205p., In

Russian. For selected papers see 34-1059 through 34-1066. Refs. passim. Refs. passim.

Tundra, Patterned ground.

34-1059

Structure of moss synusiae in the spotty tundra of the Agapa research station. [Struktura mokhovot sinuzii

rishkov, A.A., Pochvy i produktivnost' rastitel'nykh soobshchestv. Vyp.4 (Soils and the productivity of plant communities. Vol.4) edited by V.A. Kovda, Moscow, Universitet, 1979, p.5-14, In Russian. 14

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Vladychenskil, A.S.

Forestry, Forest soils, Litter, Soil formation, Podsol, Soil profiles, Soil chemistry, Landscape types, Vegetation. Biomess.

34-1061

Fractional composition of humic acids in Valday pine

forest soils. [Fraktsionny' sostav gumusovykh kislot pochv khvolnykh lesov Valdaia], Grishina, L. A., et al, Pochvy i produktivnost rastitel'nykh soobshchestv. Vyp.4 (Soils and the productivity of plant communities. Vol.4) edited by V.A. Kovda, Moscow, Universitet, 1979, p.51-62, In Russian 3.73 seeks.

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Forest soils, Litter, Biomass, Soil formation, Soil composition, Soil profiles.

34-1063 Microelements in the lower layer of Valday station spruce forest. (Mikroelementy v rasteniiakh nizhnego iarusa el'nika-kislichnika Valdalskogo statsionara), Belitsyna, G.D., et al, Pochvy i produktivnost rastitel'nykh soobshchestv. Vyp.4 (Soils and the productivity of plant communities. Vol.4) edited by V.A. Kovda, Moscow, Universitet, 1979, p.87-92, In Russian. 5 refs. Epishina, L.V

Forest soils, Biomass, Litter, Vegetation, Peat, Soil formation, Podsol, Soil chemistry.

Microorganism dynamics in spruce forest soils. Dinamika aktivnykh form mikroorganizmov v pochve

Elinamika aktivnykn form mikroorganizmov v poenve elinika-kislichnikaj, Skvortsova, I.N., Pochvy i produktivnost' rastitel'nykh soobshchestv. Vyp.4 (Soils and the productivity of plant communities. Vol.4) edited by V.A. Kovda, Moscow, Universitet, 1979, p.93-99, In Russian. 7

Forest soils, Vegetation, Litter, Soil chemistry, Soil microbiology, Soil composition, Snow cover effect.

34-1065

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solls. [Marganets oxistliaiushchie mikroorganizmy v pochvakh Valdalskogo statsionara], Bolotina, I.N., Pochvy i produktivnost' rastitel'nykh soobshchestv. Vyp.4 (Soils and the productivity of plant communities. Vol.4) edited by V.A. Kovda, Moscow, Universitet, 1979, p.100-107, In Russian.

Forest soils, Podsol, Vegetation, Litter, Soil microbiology, Soil chemistry.

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In Russian. For selected papers see 34-1068 through 34-1075. Refs. passim.

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History of river valley development as a basis for designing land irrigation with ground water in Buryat-Mongol ASSR. (Istoriia razvitiia rechnykh dolin Buriatii kak osnova dlia prognoza irrigatsii zemel pod-

zemnymi vodamij, Bazarov, D.B., et al, Istoriia razvitiia rechnykh dolin i problemy melioratsii zemel'. Sibir' i Dal'nii Vostok (History of river valley development and land reclamation problems in Siberia and the Far East) edited by N.A. Florensov and V.A. Nikolaev, Novosibirsk, Nauka, 1979, p.62-66. In Russian. 3 refs. Borisenko, I.M., Tulokhonov, A.K. River basins, Val eys, Saline soils, Swamps, Land reclamation, Irrigation, Discontinuous permafrost.

Recent tectonics and river valleys in the Ilim, Ust'-Kutsk and Katanga areas in relation to land reclamation problems. ¡Novelshaia tektonika i rechnye doliny v Himskom, Ust'-Kutskom i Katangskom ralonakh v sviazi s problemol melioratsiij, Zveder, L.N., Istoriia razvitiia rechnykh dolin i pro-

zveuer, L.N., istoriia fazvittia rechnykh dolin i problemy melioratsii zemel'. Sibir' i Dal'nii Vostok (History of river valley development and land reclamation problems in Siberia and the Far East) edited by N.A. Florensov and V.A. Nikolaev, Novosibirsk, Nauka, 1979, p.71-75, In Russian.

River basins, Valleys, Geologic structures, Quaternary deposits, Swamps, Land reclamation, Engineer-

ing geology, Economic development.

Antecedent and recent stream pattern of the Amur-Zeya Plain from spaceborne photography. [For-mirovanie prarek i sovremennol rechnol seti Amuro-Zelskol ravniny po dannym deshifrirovaniia kosmi-

cheskikh snimkov<sub>1</sub>, Muzis, A.I., Istoriia razvitiia rechnykh dolin i pro-blemy melioratsii zemel'. Sibir' i Dal'nii Vostok (History of river valley development and land reclamation problems in Siberia and the Far East) edited by N.A. Florensov and V.A. Nikolaev, Novosibirsk, Nauka, 1979, p.75-80, In Russian. 10 refs. Electric power, Spaceborne photography, Engineering geology, Baykal Amur railroad, Permafrost beneath structures, USSR—Zeya River.

34-1071

Modeling lake landscapes of the Selenga River delta, its dynamics and development. [Modelirovanie prirody ozernogo kraia Selenginskol del'ty, ee dinamika i prognoz razvitiia, Bogoiavlenskil, B.A., Istoriia razvitiia rechnykh dolin i problemy melioratsii zemel'. Sibir' i Dal'nit Vostok (History of river valley development and land reclamation problems in Sibir is nod the Ext. Each) dited by

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Photography, Geobotanical interpretation, Land-scape types, Water pollution, USSR—Baykal Lake, USSR—Selenga River.

Revealing stream pattern indices by spaceborne photography. Ispol zovanie kosmicheskikh televizion-nykh snimkov dlia vyjavlenija indikatsionnykh oso-

bennostel gidroseti<sub>j</sub>, Miliaeva, L.S., Istoriia razvitiia rechnykh dolin i pro-Miliaeva, L.S., Istoriia razvitiia rechnykh dolin i problemy melioratsii zemel'. Sibir' i Dal'nil Vostok (History of river valley development and land reclamation problems in Siberia and the Far East) edited by N.A. Florensov and V.A. Nikolaev, Novosibirsk, Nauka, 1979, p.129-134, In Russian. 12 refs. Spaceborne photography, Streams, Alpine tundra, Forest tundra, Taiga.

34-1073

Chonkemin Valley terraces and the glaciation of

Choakemin valley terraces and the glacuation of morthern Tien Shan. (O terrasakh doliny Chonkemina i oledeneniiakh severnogo Tian'-Shania; Bylinskaia, L.N., Istoriia razvitiia rechnykh dolin i problemy melioratsii zemel'. Sibir' i Dal'nit Vostok (History of river valley development and land reclamation by the significant of the signif tion problems in Siberia and the Far East) edited by N.A. Florensov and V.A. Nikolaev, Novosibirsk. Nauka, 1979, p. 137-143. In Russian 8 refs. Glaciation, Glacial deposits, Moraines, Ground ice,

Terraces, Land reclamation, Engineering geology, USSR-Tien Shan.

Combined aerial survey of northwestern Siberia. ¡Kompleksnoe aerovizual'noe obsledovanie severa Zapadnot Sibirij, Bogoiavlenskii, B.A., et al, Istoriia razvitiia rechnykh

Bogolavienskii, B.A., et al., istoriia razvitiia recnnykn dolin i problemy melioratsii zemel'. Sibir' i Dal'nii Vostok (History of river valley development and land reclamation problems in Siberia and the Far East) ed-ited by N.A. Florensov and V.A. Nikolaev, Novosi-birsk, Nauka, 1979, p.169-192, In Russian. 28 refs. Aerial surveys, Geomorphology, Landscape types, Mapping, Cryogenic soils, Swamps, Permafrost distribution. Land reclamation.

34-1075

Problems and results of studying the relief of Siberia

and the Far East. [Itogi, zadachi i problemy izucheniia rel'efa Sibiri i Dal'nego Vostoka].

Nikolaev, V.A., Istoriia razvitiia rechnykh dolin i problemy melioratsii zemel'. Sibir' i Dal'nii Vostok (History of river valley development and land reclamation problems in Siberia and the Far East) edited by N.A. Florensov and V.A. Nikolaev, Novosibirsk, Nauka. 1979, p. 192-706, In Russian. 3 refs. Geomorphology, Land reclamation, Engineering geology, Landscape types, Cryogenic soils, Permafrost, Economic development.

Differences in the formation of spring runoff in forests of the European USSR. [Razlichiia v formirovanii 

Krestovskil, O.I., et al, Leningrad. Gosudarstvennyl gidrologicheskii institut. Trudy, 1979, Vol.259, p.3-14, In Russian. 20 refs.

Deribizova, S.B., Khat'kova, N.P.

Forest land, Runoff, Meltwater, Snow cover distribution, Snow depth, Snow water equivalent, Charts.

Forecasting spring water inflow into the Kama reservoir allowing for rainfall. [Prognoz vesennego pritoka vody v Kamskoe vodokhranilishche s uchetom dozhdevoi sostavliaiushcheij, Liapunova, I.B., et al, Leningrad.

Liapunova, I.B., et al. Leningrad. Gosudarstvenny's gidrologicheskh institut. Trudy, 1979, Vol.259, p.15-25, In Russian. 6 refs.
Osadchaia, N.N., Savina, L.K.
Reservoirs, Meltwater, Flooding, Rain, Snow water equivalent, Water reserves, Analysis (mathematics), USSR—Kama River.

34-1078

Spring runoff from small drainage basins of the Dubovskaya hydrometeorological station. ¡Usloviia formirovaniia vesennego stoka s malykh vodosborov

tormitovania vesennego stoka s malykh vodosborov Dubovskol vodnobalansovol stantsii,. Bystrov. A.V., Leningrad. Gosudarstvenny'i gi-drologicheskh institut. Trudy, 1979, Vol.259, p.26-38, In Russian. 11 refs. River basins, Drainage, Meltwater, Runoff, Snow cover distribution, Snow depth, Snow water equiva-lent, Soil freezing, Frost penetration, Ground ice.

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Distribution of snow cover water reserves in the northeast European USSR. Raspredelenie zapasov vody v snezhnom pokrove v severo-vostochnykh

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Forest land, Snow cover distribution, Snow depth, Snow water equivalent, Charts.

Aerial gamma surveys for determining snow water reserves with unstable snow cover. Otsenka voz-mozhnostel opredeleniia zapasov vody v snege samo-letnym gamma-metodom v ralonakh s neustolchivym

zaleganiem snezhnogo pokrovaj, Vershinina, L.K., Leningrad. Gosudarstvennyt gi-drologicheskh institut. Trudy, 1979, Vol.259, p.68-74, In Russian. 5 refs. Aerial surveys, Gamma irradiation, Snow cover distri-

bution, Snow water equivalent.

34-1081

Meltwater losses in forests due to absorption by tree bark. Poteri talykh vod v lesu na uvlazhnenie

drevesiny, Krestovskit, O.I., et al., Leningrad. Gosudarstvenny, gidrologicheskh institut. Trudy, 1979, Vol.259, p.87-91, In Russian. 2 refs. IAstrebkov, I.K.

Forestry, Trees (plants), Roots, Meltwater, Transpiration, Water reserves, Water loss. 34-1082

34-1082 Errors in determining snow cover characteristics in the northeast European USSR. Otsenka pogreshnostel opredeleniia kharakteristik snezhnogo pokrova v severo-vostochnykh ralonakh ETS<sub>1</sub>, Vershinina, L.K., et al, Leningrad. Gosudarstvennyt gidrologicheskh institut. Trudy, 1979, Vol.259, p.113-121, In Russian. 3 refs.

Belova, L.B.

Snow surveys, Snow cover distribution, Snow water equivalent, Snow depth, Snow density, Statistical analysis, Accuracy.

Accuracy of determining soil freezing depth at obser-Accuracy of determining soil freezing depth at observation points. [Otsenka oshibki opredeleniia glubiny promerzaniia pochvy v punktakh nabliudenii], Sokolova, N.V., Leningrad. Gosudarstvennyi gidrologicheski institut. Trudy, 1979, Vol.259, p.122-128. In Purcine, 7. refe

Arologicheskh institut. Trudy, 1979, Vol.259, p.122-128, în Russian. 7 refs.
Soil freezing, Frost penetration, Frozen ground, Permeability, Meltwater, Runoff, Water loss.

Accuracy of interpolation and averaging of soil moisture content over an area. [Otsenka oshibok inter-poliatsii i osredneniia po ploshchadi zapasov vlagi v

pochvej.
Vershinina, L.K., et al, Leningrad. Gosudarstvenny's gidrologicheskii institut. Trudy, 1979, Vol.259, p.129-141, In Russian. 7 refs.
Leonova, N.E.

Snow surveys, Soil water.

34-1085

Infiltration into soil with precipitation of arbitrary intensity, [Model' infil'tratsii vody v pochvu pri osad-kakh proizvol'nol intensivnosti;, Kutuzova, G.B., Leningrad. Gosudarstvennyi gi-

Kutuzova, G.B., Leningrad. Gosudarstvennyi gi-drologicheski institut. Trudy, 1979, Vol.259, p.142-148, In Russian. 4 refs. Precipitation (meteorology), Seepage, Ground water, Water transport, Soil profiles, Mathematical models.

34-1086

Meteorological conditions for the formation of glaze-hoarfrost deposits in the lower 500-meter layer of the atmosphere. (Meteorologicheskie usloviia for-mirovaniia gololedno-izmorozevykh otlozhenii v nizh-

mirovaniia gololedno-izmorozevykii osilinem 500-metrovom sloe atmosferyj.
Degtiarev, A.D., et al. Tsentral naia vysotnaia gidrometeorologicheskaia observatoriia. Vol. 13, p.27-34, In Russian. 5 refs. Klinov, F.IA.

Icing, Hoarfrost, Icing rate, Structures, Ice loads, Meteorological data.

Nonstationary turbulent wind flow past tall structures. [Nestatsionarnoe obtekanie vysotnykh sooruz-

tures. [Nestatsionarinoe obtekanie vysotnykh sooruz-henii turbulentnym vetrovym potokom, Gusev, M.A., Tsentral'naia vysotnaia gi-drometeorologicheskaia observatoriia. Trudy, 1979, Vol.13, p.51-55, In Russian. 5 refs. Towers, Wind (meteorology), Turbulent flow, Mod-els, Wind velocity, Stresses, Analysis (mathematics).

Comment and reply on "Late Quaternary extent of the West Antarctic ice sheet: new evidence from Ross Sea cores

Fillon, R.H., et al, Geology, Nov. 1979, 7(11), p.518-519, 17 refs.

Kellogg, T.B., Truesdale, R.S., Osterman, L.E. Ice sheets, Grounded ice, Glacial geology, Antarctica

R. Fillon disagrees with the conclusions of Kellogg and others (1979; 33-3970 or E-21853) pertaining to the late Cenozoic

history of the Ross Sea. Three principal areas of disagreement are noted, the biostratigraphic significance of disagreement are noted, the biostratigraphic significance of Globicassidulina biora, the origin of the sandy unit, and the nature of Late Phocene sedimentation. Kellogg et al-hold that the concept of grounded ice filling the Ross Sea embayment, even during the last glaciation, is fundamental in interpreting the glacial history of Antarctica.

Keewatin ice sheet-reevaluation of the traditional concept of the Laurentide Ice Sheet. Shilts, W.W., et al, Geology, Nov. 1979, 7(11), p.537-

541, 29 refs.

Cunningham, C.M., Kaszycki, C.A.

Ice sheets, Glacial geology, Geologic structures, Ice models, Drift.

Climatic and synoptic study of the Weddell Sea region during the austral fall months.

Komro, F.G., Madison, University of Wisconsin, 1978, 46p., Unpublished Master's thesis. 20 refs. Sea ice distribution, Ice conditions, Pack ice, Wind (meteorology), Climate.

(meteorology), Climate.

This study focuses on two main topics: the climatic conditions of the Weddell Sea during the austral fall months, and an analysis of the cyclone whose windfield indirectly trapped the General San Martin on Feb. 26, 1975. The evidence indicates that in addition to the residence time of cyclones and or the frequency of their appearance over the central Weddell Sea, other factors, such as the polar easterlies, the damming up effect along the Peninsula, and katabatic winds must significantly account for much of the observed windfield within this region.

Antarctic journal of the United States, Vol. 14, No.3. U.S. National Science Foundation, Washington, D.C., Sep. 1979, 23p.

Ice sheets, Sea ice, Glaciology, Ice shelves.

Ice sheets, Sea ice, Glaciology, Ice shelves.
This issue contains highlights of the 1979-80 U.S. Antarctic Research Program, planned field projects for 1979-80, planned major field camps, NSF funds awards for Apr. 1-June 30, 1979, monthly climate summary corrections, and special news announcements. Research highlights include geological studies of the Elisworth Mountains and an investigation of wave-particle interactions in the magnetosphere from Siple Station. Approximately 80 science projects are planned for the coming season. Brief descriptions are given of research projects. A major field camp will be installed at site D-59 on the East Antarctic Ice Sheet to recover an LC-130 airplane that crashed at the site in 1971.

Hydrochemical regime of the Arctic Ocean. [Gidrok-himicheskit rezhim Severnogo Ledovitogo okeana], Rusanov, V.P., et al, Leningrad, Gidrometeoizdat, 1979, 144p., In Russian. 86 refs. IAkovlev, N.I., Bulnevich, A.G. Drift stations, Water transport, Water chemistry, Russian, Arctic Ocean

Brines, Chemical composition, Arctic Ocean.

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Antarctica—Ross Ice Shelf.

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34-1207

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34-1208

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Snow-tirm strata of the dergett discler.

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Arctic Land Use Research Program [Report], [1973], ALUR 71-72-13, 77p., 3

Tracked vehicles, Seismic surveys, Environmental impact, Tundra, Revegetation, Canada-Northwest Territories-Mackenzie River Delta.

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Air temperature, Frozen ground mechanics, Cold weather tests, Military equipment, Electric equip-

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Aircraft landing areas, Airports, Construction, Permafrost bases, Subgrade preparation, Thermal insulation.

34-1362

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interfaces, Mathematical models, Ice models.

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Robe, R.Q.

Oceanography, Icebergs, Ocean currents, Marine meteorology.

34.1365

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Clifford, W.F., et al, Monterey, California, U.S. Naval Postgraduate School, 1979, 220p., ADA-070 367, M. Sc. thesis.

Erman, R.J.

Floating ice, Ice temperature, Water temperature, Turbulent boundary layer, Heat transfer, United States-California-Monterey Bay.

34-1366

Snowpack optical properties in the infrared. Berger, R.H., U.S. Army Cold Regions Research and Engineering Laboratory, May 1979, CR 79-11, 16p. ADA-071 004.

Snow optics, Snow density, Light scattering, Reflec-

A theory of the optical properties of snow in the 2-20 microns A theory of the optical properties of snow in the 2-20 microns region of the infrared has been developed. Using this theory, it is possible to predict the absorption and scattering coefficients and the emissivity of snow, as function of the snow parameters of grain size and density, for densities between 0.17 and 0.4 g/cu. cm. The absorption and scattering coefficients are linearly related to the density and inversely related to the average grain size. The emissivity is independent of grain size and exhibits only a weak dependence upon density.

34-1367 Proceedings.

Conference on Assessment of Ecological Impacts of Oil Spills, June 14-17 1978, Keystone, Colorado, Keystone, 1978, 945p., ADA-072 859, For selected papers see 34-1368 through 34-1372. Numerous refs.

Meetings, Oil spills, Environmental impact, Sea ice.

34-1368

Oil spill behavior in ice during the 1977 Buzzards Bay oil spill.

Deslauriers, P.C., Conference on Assessment of Ecological Impacts of Oil Spills, June 14-17, 1978, Keystone, Colorado, Keystone, 1978, p 197-215. ADA-072 859, 16 refs.

Oil spills, Ice cover effect, United States-Massachusetts-Buzzards Bay.

34-1369 Weathering estimations for spitled oil from Bouchard No.65.

MacLeod, W.D., et al, Conference on Assessment of Ecolo ical Impacts of Oil Spills, June 14-17, 1978, Keystone, Colorado, Keystone, 1978, p.217-228, ADA-072 859, 8 refs.

yeda, M.Y., Friedman, A.J., Prohaska, P.G. Oil spills, Ice composition, Chemical analysis.

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Petersen, H.K., Conference on Assessment of Ecological Impacts of Oil Spills, June 14-17, 1978, Keystone, Colorado, Keystone, 1978, p.331-343, ADA-072 859, refs

Oil spills, Sea ice, Water chemistry, Hydrocarbons, Environmental impact.

Physical aspects of the oil spill from the supertanker

"Metula". Hann, R.W., Conference on Assessment of Ecological Impacts of Oil Spills, June 14-17, 1978, Keystone, Colorado, Keystone, 1978, p. 354-363, ADA-072 859. refs

Oil spills, Environmental impact, Tidal currents

34-1372

Assessment of the ecological effects of an oil spill in

an offshore subarctic environment.

Birchard, E.C., et al. Conference on Assessment of Ecological Impacts of Oil Spills, June 14-17, 1978, Keystone, Colorado, Keystone, 1978, p.835-855.

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Conover, S.A.M., Greene, G., Telford, A.S.
Oil spills, Offshore drilling, Oil recovery, Environmental impact, Environment simulation.

Long-term effects of land application of domestic wastewater: Vineland, New Jersey, rapid infiltration site. Koerner, E.L., et al. U.S. Environmental Protection Agency. Report, Mar. 1979, EPA/600/2-79/072, 183p. PB-297 501. Haws, D.A.

Water treatment, Waste disposal, Irrigation, Seepage, Water chemistry.

34-1374

History of land application as a treatment alterna-

Jewell, W.J., et al, U.S. Environmental Protection Agency. Technical report, Apr. 1979, EPA/430/9-79/012, 97p. PB-298 227. Seabrook, B.L.

Sewage treatment, Water treatment, Water pollution, Land reclamation, Irrigation.

34-1375

Remote sensing of snow and ice: a review of the research in the United States 1975-1978. Rango, A., U.S. National Aeronautics and Space Ad-

ministration Technical memorandum, Feb. 1979, ASA-TM-79713, 35p. N79-23478

Remote sensing, Research projects, Sea ice, Snow cover.

Deployment and retrieval of linear hydrophone ar-

rays and seismometers under Arctic ice. Gay, S.M., Jr., et al, Rockville, Maryland, MAR Associates, 1976, 97p. ADA-071 404. Nelligan, J.J.

Underwater acoustics, Subglacial observations, Measuring instruments, Seismic prospecting, Sea ice.

Systems analysis of Arctic fuel dispensing equipment. Rosenfield, D.B., et al, Little (Arthur D.), Inc., Cambridge, Mass. Repo. 172p. ADA-071 815. Report, June 1979, ADL-80260-18.

Gilbert, E.A., Ill, Howland, J.S.
Fuels, Equipment, Cold weather performance, Elas-

The Call and the Control of the Cont

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study of glacial transport.

Puranen, R., et al, Finland. Geologinen tutkimuslaitos. Report of investigation, 1979, No.40, 32p., 9

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Glacial deposits, Minerals, Particle size distribution, Density (mass/volume).

14-1379

Crystal alignments in the fast ice of Arctic Alaska. Weeks, W.F., et al, U.S. Army Cold Regions Research and Engineering Laboratory, Oct. 1979, CR 79-22, 21p., ADA-077 188, 9 refs. Gow. A.J.

Ice crystal structure, Fast ice, Ice crystal growth, Sea ice. Ocean currents.

Field observations at 60 sites located in the fast or near-fast ice along a 1200-km stretch of the north coast of Alaska between Bering Strait and Barter Island have shown that 95% of the ice samples exhibit striking c-axis alignments within the horizontal plane. Such alignments were usually well developed by the time the ice was 50 cm thick and in some cases when the ice was 20 cm thick. In all cases the degree of preferred orientation increased with depth in the ice. Representative standard deviations around a mean direction in the horizontal plane are commonly less than 10 deg for samples collected near the bottom of the ice. The general patterns of the alignments support a correlation between the preferred c-axis direction and the current direction at the ice/water interface. A comparison between c-axis alignments and spot current measurements made at 42 locations shows that the most frequent current direction coincides with the mean c-axis direction. Such alignments are believed to be the result of geometric selection with v.e. most favored orientation being that in which the conflow normal to the (0001) plates of ice that compose the de dritic sea ice/sea water interface. Field observations at 60 sites located in the fast or near-fast ice

34-1380
Towing ships through ice-clogged channels by warping and kedging.
Mellor, M., U.S. Army Cold Regions Research and Engineering Laboratory. Sep. 1979, CR 79-21, 21p., ADA-077 801, 6 refs.

Channels (waterways), Ice cover, Ice pressure, Ships,

Channels (waterways), the cover, the pressure, Snips, Aanchors.

The report studies the question of whether Great Lakes freighters could move effectively through ice-clogged channels with the aid of tows provided by warping or kedging systems. Ten operational concepts are outlined, and their advantages and isadvantages are noted. The crushing resistance of floating brash ice is then analyzed. The neutral, active and passive states of stress for laterally confined brash ice are considered, and the resistance to horizontal thrusting by a smooth vertical wall is calculated for cohesionless brash ice, and for ice in which there is finite cohesion between the ice fragments. The thickening of the ice cover in the vicinity of a "pusher" and the formation of pressure ridges are analyzed in order to estimate the amount of pile-up that can occur against a ship hull. The analysis then moves on to consideration of ship resistance by brash ice, taking into account crushing resistance at the bow, tangential friction at the bow, and the hull friction aft of the bow section. Comparisons are made between thrust from the ship's screws and the calculated ice resistance. The next section of the report estimates the force requirements for a warping or kedging system in terms of thrust augmentation for existing vessels. Tow cable requirements are given, and estimates are added for cable anchors and for anchorage of underwater structures. The force and power requirements for winches and windlaws are given. The practical problems involved in the made for cable anchors and for anchorage of underwater structures. The force and power requirements for winches and windlasses are given, the practical problems involved in the pickup or transfer of cables are mentioned, and the report concludes with a brief appraisal. The conclusion is that a simple warping tug system is appropriate for a full-scale experiment, a chain ferry with auxiliary barge seems attractive for an operational system, and a chain ferry plow may be an efficient way to clear ice from channels.

Bacterial aerosols from a field source during multiplesprinkler irrigation: Deer Creek Lake State I ark, Ohio.

Onto.

Bausum, H.T., et al, U.S. Army Cold Regions Research and Engineering Laboratory, Sep. 1979, SR 79-32, 64p., ADA-077 632, 18 refs.

Bates, R.E., McKim, H.L., Schumacher, P., Brockett,

B., Schaub, S.A.

treatment, Waste disposal, Irrigation,

Water treatment, Waste disposal, Irrigation, Aerosols, Microbiology.

An evaluation of microbiological aerosols resulting from the spray irrigation of wastewater under known atmospheric stability conditions: was performed during July and August 1978 at the Deer Creck Lake land treatment system in Ohio. In the experiment, ponded chlorinated wastewater was aprayed onto a 6-acre test area with 96 impact sprinklers representing a multi-source field aerosol distribution system. Approximately 99.9% of the wastewater applied to the 23-hectare test area fell within the area of influence of the sprinkler (about a 20-m diam circle around the sprinkler riser) with only 0.10% of the applied wastewater aerosolized. Indigenous total aerobic bacteria in the wastewater and resultant aerosols were sampled and analyzed. Fluorescent dye studies were also performed to characterize the aerosol cloud without the effects of biological decay. During

all of the aerosol tests continuous on-site meteorological measurements were made and wastewater chemical parameters monitored.

34-1382

Ice nucleation by aerosol particles: experimental studies using a wedge sheped ice thermal diffusion chamber. Schaller, R.C.,

Schaller, R.C., al. Journal of the atmospheric sciences, Sep. 1970, 56(9), p.1788-1802, 37 refs. Fukuta, N.

Freezing nuclei, I uclei, Aerosols, Supersaturation. Thermal diffi. .us. Nucleating seents.

34.1383

Ontemporary sedimentary environments on Baffin Island, N.W.T., Canada: debris slope accumulations. Church, M., et al. Arctic and alpine research. Nov. 1979, 11(4), p. 371-402, 45 refs.

Stock, R.F., Ryder, J.M.

Sediment transport, Rock glaciers, Slope processes, Talus, Avalanche deposits, Slope stability, Rock me-chanics, Lichens, Canada—Northwest Territories— Baffin Island.

34-1384

Nature and distribution of glaciers, neoglacial moraines, and rock glaciers, east-central Brooks Range. Alaska.

Ellis, J.M., et al. Arctic and alpine research. Nov. 1979, 11(4), p.403-420, 49 refs. Calkin, P.E

Glacier mass balance, Moraines, Glacial deposits, Rock glaciers, Glaciation, Climatic factors, United States—Alaska—Brooks Range.

34-1385

Surface movement and lichen-cover studies at the active rock glacier near the Grubengletscher, Wallis, Swiss Alps. Haeberli, W.H., et al, Arctic and alpine research, Nov.

1979, 11(4), p. 421-441, 49 refs.
King, L., Flotron, A.
Rock glaciers, Glacier flow, Geomorphology, Lichens, Photogrammetry, Snow cover effect. 34-1386

Energy balance model of potential glacierization of northern Canada.

williams, L.D., Arctic and alpine research, Nov. 1979, 11(4), p.443-456, 69 refs.
Glacier ablation. Glaciation, Snow cover distribution,

Climatic changes Snow line. Models.

34.1387

Variations in snow distribution over Arctic Ocean ice. [Izmenchivost' raspredeleniia snega na l'dakh Sever-

nago Ledovitogo okeana,
Buzuev, A.IA., et al, Meteorologiia i gidrologiia, Sep.
1979, No.9, p.76-85, In Russian with English summary. 13 refs.
Romanov, I.P., Fediakov, V.E.

Ice cover, Snow cover distribution, Snow depth, Pressure ridges. Snow accumulation. Arctic Ocean. 34-1388

Statistical approach to the study of glacier morphology in the Kamchatka Peninsula, Statisticheskil podkhod k izucheniiu morfologii lednikov Kam-

Vinogradov, V.N., et al, Geograficheskoe obshchestvo SSR. Izvestiia, July-Aug. 1979, 111(4), p.325-329, In Russian. 4 refs. Glazyrin, G.E.

Mountain glaciers, Glacier formation, Ice volume, Glacier ablation, Geomorphology, Classifications, Statistical analysis, USSR—Kamchatka Peninsula.

Palvnological investigations in Severnava Zemlya related to spore and pollen transfer in the high altitude Arctic. [Nekotorye rezul'taty palinologicheskikh issledovanii na arkhipelage Severnaia Zemlia v sviazi voprosom o perenose pyl'tsy i spor v vysokoshirotnol

Arktike, Kalugina, L.V., et al. Geograficheskoe obshchestvo SSSR. Izvestiia, July-Aug. 1979, 111(4), p.330-334,

In Russian. 5 refs.

Malakhovskiř, D.B., Makeev, V.M., Safronova, I.N.

Palynology, USSR—Novaya Zemlya.

34-1396 Regularities governing the distribution of soils and vegetational covers in southern Transbaikal. Zakonomernosti raspredeleniia pochvenno-rastitel'-

Dmitrieva, E.V., Geograficheskoe obshchestvo SSSR. Izvestiia, Sep.-Oct. 1979, 3(5), p.427-432, In Russian.

Cryogenic soils, Soil formation, Alpine landscapes, Taiga, Soil freezing, Frost penetration, USSR-Transbaikal.

34-1391

Use of hydraulic fills under rigorous climatic conditions.

Shkundin, B.M., et al, Hydrotechnical construction, Mar. 1979, No.3, p.227-230, Translated from Gi-drotekhnicheskoe stroitel'stvo. 10 refs.

Popov, IU.A. Hydraulic structures, Earth dams, Hydraulic fill, Cold weather construction.

34-1392

Improving the organization of concrete work performed during construction of the Sayano-Sushenskoe hydroelectric plant.

Zinchenko, N.A., et al, Hydrotechnical construction, Feb. 1979, No.2, p.114-120, Translated from Gidrotekhnicheskoe stroitel'stvo. 1 ref

adovskit, S.I. Hydraulic structures. Dams. Concrete structures. Concrete placing, Winter concreting.

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Kronik, IA.A., et al. Hydrotechnical construction.

1979, No.2, p.145-152, Translated from Gidrotekhnicheskoe stroitel'stvo. 8 refs.

Earth dams. Thermal regime, Soil freezing, Thermal conductivity. Design.

Seasonal freezing effect on hydrogeological conditions of the Chulman Basin. (O roli sloia sezonnogo promerzanija porod v formirovanij gidrogeologiches-

kikh uslovii Chul'manskoi vpadiny<sub>1</sub>, Buldovich, S.N., Moscow: Universitet. Seriia 4 Geologiia, Sep.-Oct. 1979, No.5, p.60-67, In

Russian 7 refs.

Permafrost distribution, Active layer, Permafrost hydrology, Discontinuous permafrost, Seasonal freeze thaw, Frost penetration, Soil water migration, USSR -Yakutia.

Facial characteristics of rock streams in southern Yakutia and northern Transbaikal. (Fatsial'nye oso-bennosti kurumov IUzhnol IAkutii i Severnogo Zabal-

Romanovskii, N.N., et al, Moscow: Universitet. Vestnik. Seriia 4 Geologiia, July-Aug. 1979, No.4, p.59-73, In Russian. 15 refs. Tiurin, A.I.

Rock streams, Geocryology, Slope processes, Solifluction. Frost shattering.

Calculating resistance to tracked vehicle movement on weak grounds. Metodika otsenki soprotivleniia dvizheniiu gusenichnykh lesnykh mashin po slabym

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34-1397

Contrast of electromagnetic characteristics at the ma-

Contrast of electromagnetic translation from clearly. Bogorodskii, V.V., et al, U.S. Army Cold Regions Research and Engineering Laboratory, Jan. 1979, TL 706, 6p., ADB-033 797L, 4 refs. Translation from Zhurnal tekhnicheskol fiziki, 44(4):835-838, 1974. For another translation see 32-1272

Tripol'nikov, V.P. Ice water interface, Electromagnetic properties, Ice

cover thickness, Radar echoes. Experimental data are cited which define the electromagnetic contrast of a marine ice-water boundary. The study was conducted on pack and year-old ice at drift station SP-19, using video pulses of varying length and radio pulses with a charge frequence of 200 MHz.

34-1398

the same of the sa

Pipelines in adverse environments; a state of the art, Vol.2.

American Society of Civil Engineers Pipeline Division Specialty Conference, New Orleans, Louisiana, Jan. 15-17, 1979, New York, N.Y., American Society of Civil Engineers, 1979, p.395-548, For selected papers see 34-1399 through 34-1403. For Vol.1 see 33-2070 through 33-2080

Pipelines, Cold weather construction, Pipe laying, Hydraulic structures, Frozen ground mechanics, Artificial freezing.

Brown, R.J., American Society of Civil Engineers Pipeline Division Specialty Conference, New Orleans, Louisiana, Jan. 15-17, 1979. Proceedings, Vol.2, New York, N.Y., American Society of Civil Engineers, 1979, p.418-429.

Hydraulic structures, Sea ice, Pipe laying, Trenching, Models.

Georechnical surveillance and monitoring of the Trans-Alaska Pipeline.

Williams, R.D., et al., American Society of Civil Engineers Pipeline Division Specialty Conference, New Orleans, Louisiana, Jan. 15-17, 1979. Proceedings, Vol.2, New York, N.Y., American Society of Civil Engineers, 1979, p.474-480, 2 refs.

Monitors, Cold weather construction, Pipelines, Permafrost preservation.

Cold region pipeline construction.

Pendarvis, R.C., American Society of Civil Engineers Pipeline Division Specialty Conference, New Orleans, Louisiana, Jan. 15-17, 1979. Proceedings, Vol.2, New York, N.Y., American Society of Civil Engineers, 1979, p.481-485, 7 refs.

Cold weather construction, Pipelines, Climatic factors, Logistics.

34-1402

34-1402
Pipe-s...J interaction, Trans-Alaska Pipeline.
Luscher, U., et al, American Society of Civil Engineers
Pipeline Division Specialty Conference, New Orleans,
Louisiana, Jan. 15-17, 1979. Proceedings, Vol.2,
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1979, p.486-502, 12 refs.
Thomas H.P. Manle I.A.

Thomas, H.P., Maple, J.A.

Cold weather construction, Underground pipelines.

34-1403
Arctic winter construction and cost estimating of the North Slope fuel gas pipeline.
Bock, G.R., American Society of Civil Engineers Pipeline Division Specialty Conference, New Orleans, Louisiana, Jan. 15-17, 1979. Proceedings, Vol.2, New York, N.Y., American Society of Civil Engineers, 1979, p.511-520.
Gas pipelines, Cold weather construction, Undergrand Cold State Cold Parameter Still the Cost angles of Transpillers, Still the Cost angles of Transpillers, Still the Cost angles of Transpillers.

ground facilities, Cost analysis, Trenching, Soil temperature.

Meteorological aspects of the drift of ice from the Meteorologica: aspects of the drift of ice from the Weddell Sea toward the mid-latitude westerlies. Schwerdtfeger, W., Journal of geophysical research. Oct. 20, 1979, 84(C10), p.6321-6328, 31 refs. Ice shelves, Sea ice, Drift, Wind (meteorology), Wed-

dell Sea.

Persistent, moderate to strong southerly surface winds, socalled barrier winds, develop along the east side of the Antarctic
Peninsula when the prevailing easterlies over the central and
southern Weddell Sea carry cold, stable air masses toward the
1200- to 2000-m-high mountain barrier. Because of the lack
of observations from the Weddell Sea itself, wind data for the
thopographically similar Ross Ice Shelf area are used to estimate
the probable lateral extent of barrier winds. Frequency and duration of different types of winds at the key station Matienzo
indicate the importance of the barrier effect for the drift of large
ice masses northward and northeastward to the relatively low
latitude of 63S. Such a guided discharge of ice into the belt of
the subpolar and mid-latitude westerlies, not to be found in
other sectors of the Antarctic, has a profound effect on the
temperature conditions over the southern South Atlantic. Evidence for each of these statements is presented. (Auth.)

34-1405

New role for icebergs.

Quinn, K.J., Marine affairs journal, Jan. 1978, No.5, p.72-95, 94 refs.

Iceberg towing, Ice (water storage), Water supply. This discussion proceeds in two parts: first, it describes the emerging geographic qualities and attributes with which other world regions could most directly apply the practice of obtaining icebergs as a source of fresh water and other benefits, using current knowledge of the situation. Second, it examines the undecided nature of international law governing the ownership and transfer of icebergs. The characteristics of the iceberg resources available are described and the desirable attributes of a compatible destination are outlined. Present studies have concluded that towing antarctic icebergs to arid regions is technically feasible and can provide large quantities of fresh water at costs significantly lower lower than capital and/or energy-intensive alternate processes such as overland conveyance or seawater desalination. Iceberg towing, Ice (water storage), Water supply. seawater desatination

Summary report.
Workshop on Remote Sensing of Sea Ice, Washington, D.C., Oct. 16-20, 1978, World Meteorological Organization, Commission for Marine Meteorology, [1978].

Sea ice distribution, Remote sensing, Ice mechanics, Photointerpretation, Airborne equipment, Mapping,

34-1407

NOAA satellite-derived continental snow cover data base.

Wiesnet, D.R., et al. Glaciological data, Aug. 1979, GD-6, p.3-8, 4 refs.
Matson, M.
Snow cover distribution, Remote sensing, Meteoro-

logical data, Charts, Spacecraft.

34-1408

Snow and pack ice indices.

Kukla, G., et al, Glaciok gical data, Aug. 1979, GD-6, p.9-14. I ref. Gavin, J.

Snow cover distribution. Pack ice. Ice conditions, Indexes (ratios), Heat balance, Charts.

dexes (ratios), Heat balance, Charts.

Data on snow pack ice distribution in the Northern and Southern Hemispheres are obtained by analyzing NOAA charts. A total of 70 geographic segments are assessed. Mr asirement is done by counting grid points along latitudinal lines. The grid density for the Southern Hemisphere is 2 deg of longitude per 2 deg of latitude equatorwards of latitude 70 deg, and 4 deg of longitude per 2 deg of atitude polewards of latitude 70 deg. A separate set of snow and ice cover indices is obtained by planimetering NOAA charts.

Alaskan snow cover.

Benson, C.S., Glaciological data, Aug. 1979, GD-6. p.19-25, 25 refs.

Snow physics, Depth hoar, Tundra regions, Taiga,

Meteorological factors

Snow survey of Great Britain.

Ogden, R.J., Glaciological data, Aug. 1979, GD-6, 27.37

p.27-37. Snow surveys, Snow cover distribution, Snow depth, United Kingdom.

34-1411

54-1411 Focus on U.S. snow research. Colbeck, S.C., Glaciological data, Aug. 1979, GD-6, MP 1261, p.41-52, 34 rcfs. Snow surveys, Research project., Impact, Agricul-ture, Water reserves.

34-1412

Snow and the organization of snow research in the

United States.
Colbeck, S.C., Glaciological data, Aug. 1975 GD-6, MP 1262, p.55-58, 1 ref.

Snow surveys, Research projects.

34-1413

Snow cover: a selected bibliography. Glaciological data, Aug. 1979, GD-6, p.71-93.

Snow surveys, Bibliographies, Snow cover.

This bibliography of world literature covers areal snow cover distribution, its temporal variations, and measurement techniques. The citations are divided into the following subjects: general, snow cover extent, and snow cover mapping and remote sensing applications. Coverage in limited to works published from 1969 to 1979.

34-1414

Glaciation of Antarctica (study results and prospects).

Aver'ianov, V.G., et al, Polar geography, July-Sep. 1978, 2(3), p.154-163, For Russian original see 9E-18381 or 31-3521. 35 refs.

Korotkevich, E.S. Ice sheets, Glaciology.

This is a review article on Soviet efforts in antarctic glaciology and other research areas, such as meteorology and hydrology, impinging on the present and past glaciation of the continent. The current need is to expand the research effort at continental stations where the ice sheet is less responsive to influences from without and is most stable

34-1415

Ground control and interpretation of satellite im-

Ground control and interpretation of Sales. Sagery in Antarctica.

Lutsenko, E.I., *Polar geography*, July-Sep. 1978, 2(3), p.154-166, For Russian original see 9C-18402. 3 refs.

Spiceborne photography, Photointerpretation, Mapping, Ice conditions.

United States satellite imagery, obtained from ESSA 8 and united States satellite imagery, obtained from ESSA 8 and Mimbus 4, was used by Soviet Antarctic expeditions in 1969-1973 for the analysis of weather and ice conditions. The technique used to fit the satellite imagery to a grid of geographic coordinates and the use of known landmarks as ground control points are described. (Auth.) 34-1416

Icing of ships.
Panov, V.V., Polar geography, July-Sep. 1978, 2(3), p.166-186, For Russian original see 9F-17923 or 31-1684. 77 refs.

Icing, Ice prevention, Wind factors, Ship icing.

Soviet and non-Soviet studies on conditions of ship icing are reviewed. Icing problems in the Antarctic are briefly touched

34-1417

Changes in the amount of multi-year ice in arctic seas

Changes in the amount of multi-year ice in arctic seas during the current cooling trend.
Bulatov, L.V., et al, *Polar geography*; July-Sep. 1978, 2(3), p.216-218, 3 refs. For Russian original see 31-3545.

Zakharov, V.F. Sea ice, Climatic changes.

34.1418

Specialization of winter road maintenance, a pressing issue. ¡Spetsializatsiia zimnego soderzhaniia dorog nazrevshil vopros],

Kungurtsev, A.A., et al, Avtomobil'nye dorogi, Sep. 1979, No.9, p.7-8, In Russian. 4 refs.

ivanov, V.D. Winter maintenance, Railroad tracks, Snow removal, Ice prevention, Roads.

Ways of improving winter maintenance of roads. [Puti uluchsheniia zimnego soderzhaniia dorog], Bialobzheskii, G.V., et al. Ast neubil nye dorogi. Sep. 1979, No.9, p.9-11. In Russian. Slobodchikov, IU.V. Winter maintenance, Snow removal, Ice prevention.

Embankments, Snow cover distribution, Snow depth, Roads, Design.

34-1420

Maintenance felling of trees in snow protection strips. [Konstruktivnye rubki ukhoda v snegozashchitnykh nasazhdeniiakhi,

Kazanskit, V.D., Avtomobil'nye dorogi, Sep. 1979, No.9, p.11-13. In Russian.

Snowdrifts, Protective vegetation, Forest strips, Roads.

34-1421

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Terrain identification, Topographic surveys, Site surveys, Tracked vehicles, Trafficability, Classifications, Mapping, Active layer, Snow depth, Ice cover thickness. Subarctic regions.

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Electron microscopy, Frozen ground physics, Soil structure. Clay soils.

Transmission and scanning electron micrographs of Umiat ben-torite revealed thin, mica-like grains with irregular shapes. Most of the bentonite showed electron diffraction ring patterns. Most of the bentonite showed electron diffraction ring patterns, but some showed hexagonal net patterns as well as ring patterns. The lengths of the unit cells were calculated to be 5.18 A along the a-axis and 8.97 A along the b-axis. Semiquantitative analyses were made using an energy dispersive spectrometer. Common elements such as Si, Ti, Al, Fe, Mg, Na and K were determined. The molecular ratio of 8i02 Al2O3 was calculated to be 492 100 for the bulk sample, indicating that Unitable thought of the seminary of the microstructure of forcer U mat bentonite was observed at a speciment temperature of -100C using a scanning electron microscope equipped with a cold stage. Frozen bentonite and segregated ice patterns formed from wet bentonite were examined using an X-ray map and 8i X-ray line scan. Sublimation processes of ice in the frozen bentonite were observed at speciment emperatures of -60 and -80C. After sublimation of the ice, the bentonite displayed a honeycomb structure. It was concluded that the freezingsublimation cycle in frozen soil increases the permeability of water vapor due to the three-dimensional structure of the coagulated clay formed by freezing

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Soil freezing, Unfrozen water content, Electromagnetic prospecting, Electronic equipment.

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Permafrost hydrology, Soil freezing, Isotopes, Freezing rate. Temperature effects, Tests.

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Meetings, Human factors, Ice control, Environmental impact, Chemical ice prevention, Corrosion.

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Noncorrosive methods of ice control.

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Artificial islands, Gravel, Ice loads, Ice mechanics, Ice pressure, Offshore landforms, Meetings, Beaufort 34-1588

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Artificial islands, Gravel, Oceanographic surveys, Design criteria. Offshore landforms.

34-1590

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Sea ice, Ice crystal structure, Ice strength, Ice loads, Artificial islands.

34-1592

Sea ice loads.

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Geotechnical criteria.

Prodanovic, A., Technical Seminar on Alaskan Beaufort Sea Gravel Island Design, Houston, Texas, Production Research Co., Oct. 1979, 11p. + 11 slides, 6

Artificial islands, Frozen ground strength, Marine geology, Thermal properties, Offshore landforms, Gravel, Ice loads, Grain size, Design criteria. 34-1594

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Artificial islands, Strength, Ice conditions, Ice pressure, Gravel, Drilling, Design criteria. 34-1595

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Artificial islands, Trenching, Ice loads, Ice pressure, Countermeasures, Offshore landforms, Gravel, Moni-

34-1596

Production islands.

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34-1597

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Icebergs, Classifications.

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34-1598

Test of snow fortifications. Farrell, D.R., U.S. Army Cold Regions Research and Engineering Laboratory, Oct. 1979, SR 79-33, 15p., ADA-078 742, 16 refs.

Penetration tests, Military engineering, Snow (construction material), Fortifications, Small arms ammu-

A field study was conducted to 1) more accurately define the A field study was conducted to 1) more accurately define the degree of protection offered by simple snow fortification and 2) evaluate the effort required by infantry troops to build such fortifications when only basic tools are available. A seven-man

infantry squad, equipped with standard issue snow shovels and an arctic sled (Akhio), constructed several simple snow structures. Construction was made more difficult by the imposition of a camouflage discipline requirement. When completed, three positions were subjected to MIOA1 rifle fire while the infantry squad executed a simulated tactical assault. A fourth and much larger position was tested with simulated covering fire from a M2HB 30-caliber machine gun. None of the 5-56-mm bullets fired by the squad from ranges of 200 m to as close as 10 m managed to penetrate the 1.8-m-thick snow embankments. The 12-7-mm-diameter bullets fired from the M2HB at range of 250 m were all stopped by 3.0 m of packed snow. The camouflage considerations and the shallow snow conditions increased the construction time for the three small emplacements by almost a factor of four, and for the larger emplacement by almost a factor of four, and for the larger emplacement by almost a factor of the squad still handled a volume of packed snow that was equal to 3.7 times the volume of unfrozen soil that could be handled with the same amount of effort, according to field manual estimates. Under forzen soil conditions the advantages of using snow would be significantly greater. significantly greater

34-1599

Prototype overland flow test data: June 1977-May 1978

Jenkins, T.F., et al, U.S. Army Cold Regions Research and Engineering Laboratory, Nov. 1979, SR 79-35, 91p., ADA-078 743, 9 refs. Waste treatment, Water treatment, Irrigation, Soil chemistry, Ion exchange, Meteorological data.

chemistry, Ion exchange, Meteorological data. A prototype overland flow land treatment system was operated at Hanover, New Hampshire, over a one-year cycle from June 1977 to May 1978. The individual data points collected over this period for water quantity and quality are presented, as well as plant yields and nutrient uptake. The soil chemical and physical parameters measured are also presented along with a table of initial site characteristics. The meteorological measurements obtained in support of this effort are included to complete the data base. plete the data base.

34-1600

Icegoing drill ships. Engineering. Nov. 1979, 219(11), p.1460-1461. Icebreakers, Ships, Offshore drilling.

Plutonium in glaciers. Analytical chemistry, Dec. 1979, 51(14), p.1419A-1422A, 6 refs. Ice shelves, Ice sheets, Ice composition, Isotope anal-

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Storage, Air temperature, Pipeline heating, Seasonal variations. Cost analysis.

34-1603

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High pressure ice, Phase transformations, Ice physics, Models.

34-1604

Relation between the strengths of the orientation polarization and the infrared absorption of the O-H stretching vibrations of ice.

Whalley, E., Chemical physics letters, Feb. 1, 1978, 53(3), p.449-451, 133 refs.
DLC QD1.C53

Ice physics, Ice crystal structure, Infrared radiation.

34.1605

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Sivakumar, T.C., et al, Chemical physics letters, June 1, 1977, 48(2), p.212-218, 10 refs. Schuh, D., Sceats, M.D., Rice, S.A. DI.C QD1.C53

Ice density, Infrared spectroscopy, Light scattering.

34-1606

Interpretation of the OH stretching region of the vi-

brational spectrum of ice I. McGraw, R., et al. Chemical physics letters, June 1, 1977, 48(2), p.219-226, 22 refs. Madden, W.G., Rice, S.A., Sceats, M.G.

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Blachut, S.P., et al. McMaster University Department of Geography Discussion paper No.6, Hamilton, Ont., McMaster University, 1976, 90p., Refs. p. 78-90

Ballantyne, C K

Lake ice, Ice dams, Physical properties, Hydrology, Ice formation, Water temperature, Sedimentation, Drainange, Classifications

Charged dislocation in ice: 1. Existence and charge

density measurement by X-ray topography, tagaki, K. U.S. Army Cold Regions Research and Engineering Laboratory, Nov. 1979, CR 79-25, 12p., ADA-078-775, 23 (cfs. long-thoughts).

Ice electrical properties, Electric charge, Disloca-tions (materials), X ray analysis, Ice crystal struc-

The motion of dislocations in single cristal accumder an electric field was observed by using X-ray topographic methods. Electric charge density on these dislocations was deduced from the amplitude and length of the dislocation segment under the known AC electrical field. In linear charge density, considerable variation is possible, depending on the effective field acting on the dislocation line-

34-1609

Some Bessel function identities arising in ice mechan-

Takagi, S. I. S. Army. Cold Regions Research and Engineering Luboratory, Nov. 1979, CR 79-27, 13p., ADA-078 709, 10 refs. Ice mechanics, Analysis (mathematics).

Ice mechanics, Analysis (mathematics).

Some Bessel limetion identities found by solving problems of the deflection of a foating ice plate by two different methods are rigorously proved. The master formulas from which all the identities are derived are in a Fourier reciprocal relationship, connecting a Hankel function to in exponential function. Many new formulas can be derived from the master formulas. The analytical method presented here now opens the way to study a furtherto impossible type of problem-the deflection of floating clastic plates of various shapes and boundary conditions.

34-1610

Economic impact of highway snow and ice control McBride, J.C., Transportation research record, 1978, No.674, p.58-63, 10 refs.

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A 19-yr record of the annual closing and opening dates of operation of the Lake Champlain ferry at Grand Isle, Vermont, which are controlled by the lake's ice cover, was made available to CRREL. These navigation records accurately approximated the freeze-over and breakup dates for the terry crossing area between Gordon Landing, Vermont, and Cumberland Head, New York. When compared statistically with water temperature and climatological data for the same years at nearby Lake Champlain locations, the dates allowed accurate predictions of ice formation. From nearby air temperature records, cumulative freezing degree-day (C) curves were plotted for each year of record, and ice formation dates and standard deviations were predicted with considerable accuracy. Several methods of preof record, and tee formation dates and standard deviations were predicted with considerable accuracy. Several methods of predicting ice formation on Lake Champlain were attempted. The most accurate approach used a combination of water temperatures and freezing degree-days. The influence of wind speed on ice cover formation and prediction are also discussed in the

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Glacier ice, Ice cores, Radiation.
In an analysis of NO3 in an antarctic ice core we have found four spikes of high concentration, three of which occur at depths which correspond roughly to the dates of known galactic supernovae (SN). The production of the observed NO3 peaks by the hard X rays generated by a SN outburst (particularly Type I) does not seem inconceivable at least from the point of view of energy requiren ents and current SN models. We predict that the bright SN of 1006 will be observed about 15 m beyond the end of the current core. If this is true, our identification of these spikes with SN will have important consequences for the theory of SN, atmospheric chemistry and transport, and even the dating of ice cores. (Auth.)

34-1747

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Ice shelves, Ice melting, Ice cover thickness, Ice temperature, Antarctica—Ross Ice Shelf.

The ice sheet in West Antarctica is grounded on a sub-sea level basin in the antarctic continental shelf. At the seaward margins, where ice thicknesses are reduced sufficiently to attain neutral buoyancy. Ioating ice shelves form. The two largest are the Ross and Ronne ice shelves. Because the depth of the continental shelf increases towards the center of the West Antarctic ice sheet, ice discharge could accelerate irreversibly until the grounded portion of the ice sheet had completely disappeared. The resistance to ice discharge provided by the ice shelves is the major factor preventing such a collapse. Geological evidence indicates that the extent of grounded ice in the West Antarctic has fluctuated widely during the Pleistocene, and complete removal of the ice sheet may have occurred during the Sangamon interglacial following a climatic warming, which was probably associated with a retreat of the ice-shelf seaward margins. One of the most active ice streams draining West Antarctica flows into the southeast corner of the Ross Ice Shelf. Surface observations in this area indicate that, either the ces helf is thickening, or that there is appreciable melting from beneath ice shelf that is >500 km from the open sea. Such melting would strongly influence temperatures within the ice shelf, and here a temperature-depth profile from the ice shelf is used to estimate the basal regime. It is concluded that, for much of the southeast corner, basal freezing/melting rates have been near zero for the past few hundred years. This implies that, within this region, the ice shelf is thickening at approx 0.3 m/yr. (Auth.)

34-1748
Annual report No.11; Contract N00014-76-C-0234; NR 307-252.
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p.154-165, In Russian. 14 refs. Alpine landscapes, Cryogenic soils, Meadow soils, Soil microbiology, USSR—Altai Mountains.

Temperature and humidity effect on biological nitro-gen fixation in leached chernozem with different organic additives. [Delstvie temperatury i vlazhnosti na protsess biologicheskol fiksatsii azota v vyshehelochennom chernozeme s razlichnymi organicheskimi

dobaykamij, Mozzherin, N.M., Mikrobnye assotsiatsii i ikh funktsionirovanie v pochvakh Zapadnot Sibiri (Microbic associations and their functions in the West Siberia soils) edited by I.L. Klevenskaia, Novosibirsk, Nauka, 1979, p.174-178, In Russian. 3 refs.

Cryogenic soils, Soil microbiology, Soil chemistry, Nutrient cycle, Chernozem.

54-1813 Effect of fertilizers on the microflora of gray forest soils in the Altai Mountains. (Vliiame udobrenit na mikrofloru serykh lesnykh pochy gornogo Altaia). Vyblov, N.F., Mikrobnye assotsiatsii i ikh funkt-sionirovanie v pochyakh Zapadnot Sibiri (Microbic asstonirovanic v poervaki zapadnoi sibiri (Microbic associations and their functions in the West Siberia soils) edited by I.L. Klevenskaia, Novosibirsk, Nauka, 1979, p.178-183, In Russian. 4 refs.

Alpine landscapes, Cryogenic soils, Soil microbiology, Forest soils, Soil chemistry, USSR—Altai

Mountains.

34-1814

General and applied climatology. [Obshchaia i prik-

General and applied ladnaia k'imatologiia), Kobysheva, N.V., ed, Leningrad Glavnaia geofizi-checkaia observatoriia. Trady., 1979, Vol.245, 104p., cheskaia observatoria. Trudy., 1979, Vol.245, 104p., In Russian For selected papers see 34-1815 through 34-1822. Refs. passim. kopanev. LD., ed.

Icing, Ice accretion, Mapping, Ice loads, Building codes, Hydraulic structures, Design, Snow surveys, Snow depth, Snow accumulation, Snow cover distrihution

34-1815

Methods of determining and presenting climatological data for structural design. tO metodakh

dlia stroitel'nogo proektirovaniia). Kobysheva, N.V., et al, Leningrad. Glavinia geofizi-cheskaja observatorija. Trudy, 1979, Vol.425, p.3-8,

In Russian. 8 refs.
Kopanes J.D., Shver Ts.A.
Meteorological data, Data processing, Construction, Design, Climatology,

34-1816

Using climatic data in structural design. [Ispol'zovanie klimatologicheskot informatsii v stroitel'nom proektirovaniij.

Kobysheva, N.V., et al, Leningrad. Glavnaia geofizi-cheskaia observatoriia. Trudy, 1979, Vol.425, p.9-16, In Russian. -4 refs.

Meteorological data, Data processing, Construction, Design, Buildings, Heat loss, Microclimatology, Wind factors.

Building code requirements concerning ice loads on hydraulic structures. O trebovaniiakh SNiPa po opredeleniiu ledovykh nagruzok na gidrotekhnicheskie sooruzheniia,

bushina, L.P., Leningrad. Glavnaia geofizicheskaia observatoriia. Trudy, 1979, Vol.425, p.17-20, In Rus-5 refs

Hydraulic structures, Ice loads, Building codes,

34.1818

Daily snow accumulation in Belorussia. ¡Sutochnye Normal State of the Community of the Com

Russian. 10 rcfs. Snow surveys, Snow accumulation, Snow cover distribution, Snow depth, Meteorological charts.

34-1819

Calculating the icing of tall structures from indirect

data. [K raschetu parametrov obledenenia vysotnykh sooruzhenii po kosvennym dannym].
Glukhov, V.G., et al, Leningrad. Glavnaia geofizicheskaia observatoriia. Trudy, 1979, Vol 425, p.67-71. In Russian. 10 refs Mytarev, M.N.
Ice loads, Meteorological data, Weather forecasting,

Icing.

34-1820

Mass and density of ice-hoarfrost deposits under different physiographic conditions. [Plotnost' i massa gololedno-izmorozevykh otlozheni v razlichnykh fizi-

gotoleano-izmorozevykh odtożnemi v raznennykh nzi-ko-geograficheskikh usloviiakh<sub>1</sub>. Zakharov, A.G., et al, *Leningrad. Glavnaia geofizi-cheskaia observatoriia. Trudy*, 1979, Vol.425, p.74-80, In Russian. 11 refs. Sokolova, S.N

Icing, Ice accretion, Hoarfrost, Ice density, Topographic effects.

34-1821

the same of the sa

Length of the ice-hoarfrost accretion period. [O prodolzhitel nosti narastania gololedno-izmorozevykh otlozhenitj,

Guliaev, IU.N., Leningrad Guliaev, IU.N., Leningrad Glavmaia geofizicheskaia observatoriia. Trudy, 1979, Vol. 425, p. 81-85, In Rus-7 refs

Hoarfrost, Icing, Ice accretion, Topographic factors.

Regionalization of the USSR according to icing. (Raionirovanie territorii SSSR po otlozheniiam gololedar.

Rudneva, A V., Leningrad. observatoriia. Trudy, 1979, Vol.425, p.86-91, In Russian. 12 refs. Glavnaia geofizicheskaia

Icing, Ice accretion, Icing rate, Ice cover thickness, Mapping, Meteorological charts, Ice loads.

34 1823

Relict cryogenic microrelief of the southern Bryansk

chasti Brianskoi oblastij.
Porozhniakova, O.M., Geomorfologiia, July-Sep.
1979, No.3, p.86-93, In Russian with English sum-

Geocryology, Polygonal topography, Frost shattering, Patterned ground.

34-1824

Variations in the ice surface height along the Mirnyy 100 km profile. (Izmenenie vysoty poverkhnosti I'da na profile Mirnyl-100-t kilometr<sub>1</sub>. Meier, S., Sovetskaia antarkticheskaia ekspeditsiia.

Informatsionny'i builleten', 1979, No.99, p.17-24, In Russian. 17 refs.

Ice sheets, Mass balance, Glacier mass balance, Antarctica—Mirnyy Station.

tarctica—Mirnyy Station.

Thickness studies were done in 1962 and 1965, and long-term accumulation records were kept along a 100-km profile near Mirnyy. In spite of rather large measurement errors, tendencies in ice sheet thickness are apparent and can be compared with observations done at other continental stations. A positive mass balance occurs up to the 5-km point (probably because the ice is held in crags). After that, the ice surface gradually drops off. Global climate accounts for this phenomenon, while local factors resulting from flow mechanics account for maximum drop of 2m yr in the Helen Glacier area. South of the Helen Glacier basin, the surface appears to be almost in equilibrium.

Results of temperature measurements in Vostok boreholes. ¡Rezul'taty'termometrii v skwazhinakh na stant-

sii Vostokį. Vostretsov, R.N., et al, Sovetskaia antarkticheskaia ek-Informatsionny's biulleten', 1979, No.99, Russian 7 refs. p.25-31. In Russian

Dmitriev, D.N. Temperature measurement, Thermal drills, Ice temperature, Antarctica—Vostok Station.

Measurements down to 900 m were done to determine ice cover

temperature and also to assess the effect of thermal drills on ice temperature and also to assess the effect of thermal drills on ice temperature. The sharpest decline in temperature occurs between 20 and 60 m in depth. Borehole temperature recovers within 150-200 days after drilling. Accuracy and reliability of te temperature determinations depend on the state of the hole, its integrity and its stability. Readings done both at the time of drilling and 327 days later are in good agreement with theoretical data; at a low temperature gradient natural air convection introduces very little distortion into temperatures in deep horeholes.

34-1826

Determining horizontal ice flow gradients in the Vostok Station area down to 800 m. (Opredelenie gradientov gorizontal not skorosti techenia l'da v raione stantsii Vostok do glubiny 800 m.).

Dmitriev, D.N., et al. Sovetskana antarkticheskaia ekspeditsiia. Informatsionnyi biulleten. 1979, No.99.

p.32-34, In Russian. 3 refs. Vostretsov, R.N.

Ice sheets, Thermal drills, Flow measurement, Gla-

rce sneets, Thermal drills, Flow measurement, Glacier flow, Antarctica—Vostok Station.
Beginning in 1973, study of the rce sheet movement was carried out in a 903-4-m borenole near Vostok Station. No changes in angle of inclination, measured every 8-10 months, were noted. The drilling method an electric thermal drill on a cable produced a virtually vertical hole. These findings support previous conclusions that the ice cover around Vostok is practically stationary.

34-1827

Glacier echo sounding studies around Molodezhnaya. [Raboty po radiolokatsionnomu zondirovaniiu led-nikov v ratone Molodezhnot], Trepov, G.V., et al. Sovetskaia antarkticheskaia ek-

p. 35-38. In Russian. 1 ref.
Sheremet'ev, A.N., Stepanov, V.K.
Echo sounding, Glacier thickness, Antarctica Moloderhaya Station, Antarctica—Hays Glacier, Antarctica—Campbell Glacier.

was made in the summer of 1975-76 to measure ice thickness by echo sounding and to set up flow measurement and control point networks. A network was laid out to allow sounding determinations of flow rate to be done at 19 points. Data from echo sounding work are compared with flow rate findings obtained by geodesic methods.

34-1828

Connections in the Gamburtsev and Vernadskiy Subglacial Mountains. (O sviazi podlednykh gor Gamburtseva i Vernadskogo).

Koblents, IA.P., Sovetskaia antarkticheskaia ekspedit-Informatsionny's biulleten', 1979, No.99, p.39-48. In Russian. 9 refs

Ice sheets, Ice cover thickness, Glacier thickness, Antarctica-Enderby Land.

tarctica—Enderby Land.

The present work is an attempt to establish relationships among the gravimetric charts of Enderby Land and the South Fole area and, by analyzing the gravity anomalies, to outline subglacial will also make it possible to chart the subglacial topography north and south from the Yamato Mountains and to study the Gamburtsee Subglacial Mountains. Subglacial relief data from gravimetry readings are set out in charts. Comparing these findings with echo sounding data gathered by British-American researchers shows that the Gamburtsee Subglacial Mountains are better described as highlands, which cover the central part are better described as highlands, which cover the central part of East Antarctica between Komsomolskaya and the Pole of Inaccessibility. They extend about 1000 km and have no di-rect connection with the Vernadskii Mountains.

Temperature regime of the antarctic fast ice. (Temperaturnyi rezhim antarkticheskogo pripaiaj,

Nazintsev, IU.L., Sovetskaia antarkticheskaia ekspeditsiia. Informatsionnyi biulleten', 1979, No.99, p.63-68, In Russian. 4 refs. Fast ice, Ice shelves.

he condition reports from stips in the Weddell Sea in 1975-76 are summarized and compared with satellite records. Troublesome features of Weddell Sea ice navigation are pointed out; leads must be used with great caution as they often he parallel and do not connect or reach open water.

Snow measurements on the antarctic shelf ice. [O snegomernykh nabliudeniiakh na antarkticheskom

Kozlovskii, A.M., Sovetskaia antarkticheskaia ek-ROZIONSKII, A.M., Sovetskaia antarkticheskaia ex-speditsiia. Informatsionnyi biulleten', 1979, No.99, p.74-77, In Russian. 8 refs. Sea ice, Sea water, Fast ice, Floating ice, Snow ac-cumulation, Snow depth, Seepage, Antarctica.

Since sea water infiltration of sea ice is different in Antarctic from that in the Arctic, traditional measures of snow accumulation on shelf ice have led to serious underestimation of snow accumulation in southern high latitudes. The depth of the snow-water layer in the Bay of Cosmonauts and near Mirnyy is discussed and charted and a new method for more accurately assessing the contribution of snow accumulation to shelf ice depth suggested.

Time effect on the strength and service life of winter laying of silicate bricks using potash and sodium ni-trate as cement additives. [Vliianie vozrasta na proch-nost' i dolgovechnost' zimnet kladki iz silikatnogo kirpicha na rastvorakh s potashom i nitritom natrijaj. Kotov, I.T., Prochnost' krupnopanel'nykh i kamennykh konstruktsil (Strength of large-panel and stone structures) edited by S.A. Sementsov and V.A. Kameiko, Moscow, Strojizdat, 1972, p.224-236, In

DLC TA670.P7

Cold weather construction, Bricks, Mortars, Cement admixtures.

34-1832

Effect of compression on the strength of brickwork built in freezing weather. [Vliianic obzhatiia na prochnost' zimnei kladkij, Kotov, I.T., Prochnost' krupnopanel'nykh i kamen-

nykh konstruktsii (Strength of large-panel and stone structures) edited by S.A. Sementsov and V.A. Kametko, Moscow, Strolizdat, 1972, p.236-237, ln Russian.

DLC TA670.P7

Walls, Bricks, Mortars, Freeze thaw cycles, Frost

Allowing for temperature effect when designing large panel buildings. ¿Uchet temperaturnykh vozdeistvil pri proektirovanii krupnopanel'nykh zdanily.

issiedovateľsků institut stroiteľnykh konstruktsů. Trudy, 1970, Vol.10, p.25-89, In Russian. 10 refs. DLC TH441.U26

Large panel buildings, Foundations, Thermal stresses, Walls, Design.

34.1834

Selecting design values of temperature when calculating buildings for thermal and moisture effects and settling. (Vybor raschetnykh znachenit temperatur pri raschetakh konstruktsit zdanit na temperaturno-ylazhnostnye vozdejstvija i usadkuj. Emeljanov, A.A., Moscow Tsentraljnyi nauchno-

issledovateľskii institut stroiteľnykh konstruktsii. Trudy, 1970, Vol.10, p.90-119, In Russian. 4 refs. TH441.U26

Large panel buildings, Concrete structures, Walls, Thermal stresses, Soil water migration, Foundations, Settlement (structural), Design,

Allowing for humidity when designing external brick

walls. (Uchet pri proektirovanii naruzhnykh kirpichnykh sten vlazhnostnykh uslovii ikh raboty), Shishkin, A.A., et al. Moscow—Tsentral'nyi nauchnoissledovatel'skii institut stroitel'nykh konstruktsii. Trudy. 1970, Vol.10, p.120-138, In Russian.

Tsitron, M.F.
DECTALLULUS

DLC TH441 U26

Industrial buildings, Bricks, Walls, Humidity, Frost resistance, Design, Wind factors.

Operating large dumpers at the "Tsentral'nyy" mine, Operating large dumpers at the "Tsentral nyy" mine, the "Apatit" departure yard. [Ekspluatatsiia bol'shegruznykh avtosamosvalov na rudnike "Tsentral nyi" PO "Apatit"]. Kolesnikov, V.G., et al, Gorny'i zhurnal. Sep. 1979, No.9, p.17-18, In Russian.

Mining, Transportation, Motor vehicles, Frozen cargo, Cold weather operation.

34-1837

New technology of recovering crushed ore when mining valuable metals at subzero temperatures. ¡Novaia tekhnologiia izvlecheniia poter' otbitol rudy pri raz-rabotke tsennykh rud v usloviiakh otritsatel'nykh tem-

peratury.

Popov, N.I., et al, *Gorny's zhurnal*, Sep. 1979, No.9, p.22-24, In Rossian. 4 refs.

Ivanov, A.A., Pivovarov, L.K., Kardashov, S.P.

Mining, Excavation.

Using "fizanite" explosives in the Noril'sk Mining Concern. [Primenenic ifzanitov na Noril'skom GMK]. Mamashev, IU.P., et al. Gorny'i zhurnal, Sep. 1979, No.9, p.29-30, In Russian. Golovko, T.S., Viktorov, S.D. Mining, Explosives, Permafrost, USSR—Noril'sk.

30,000-yr isotope climatic record from antarctic ice. Lorius, C., et al. Nature, Aug. 23, 1979, 280(5724), p.644-648, 32 refs.

Merilvat, L., Jouzel, J., Pourchet, M. Ice cores, Ice sheets, Isotope analysis, Snow accumulation, Ice dating, Climate.

sation, tee dating Crimate.

Simple gaceiological conditions at Dorne C in east Antarctica have made possible a more detailed and accurate interpretation of an ice core to 950 m depth spanning some 32,000 yr than that obtained from earlier ice cores. Dated events in comparable marine core has enabled the reduction of accumulation rate during the last ice age to be estimated. Climatic events re-corded in the rec core indicate that the warmest Holocene period in the Southern Hemisphere occurred at an earlier date than in the Northern Hemisphere. (Auth.)

Impact of CO2 on cooling of snow and water surfaces. Choudhury. B., et al, Nature, Aug. 23, 1979, 280(5724) p.668-671, 27 refs.

Snow surface, Radiation absorption, Cooling, Carbon dioxide, Sea ice, Ice surface, Heating.

34-1841

Ice movements and deglaciation of the central parts of Saltfjellet, Nordland, north Norway. [Isbevegelser

og isavsmeltning i den sentrale delen av Saltfjelet, Nordland, Nord-Norge, Sveian, H., et al, Trondheum. Norges geologiske un-dersokelse. Bulletin, 1979, No 49, p.1-20, In Norwe-gian with English summary. 19 refs.

Aa, A.R., Kjaernes, P.A. Giacial geology, Glacial lakes, Moraines, Ice dams.

34-1842

Data office and actions of snow contamination of an Aretic snowfield. Gjessing, Y.T., Atmospheric environment, 1977, 11(7), p.643-647, 15 refs

Snow composition, Snow impurities, Atmospheric circulation.

Nondestructive testing of in-service highway pave-

ments in Malne. Smith, N., et al, U.S. Army Cold Regions Research and Engineering Laboratory, Apr. 1979, CR 79-6, 22p. ADA-069 817.

and Engineering Laboratory, Apr. 1979, CR 79-0, 22p. ADA-069 817.

Eaton, R.A., Stubstad, J.

Roads, Cold weather tests, Pavements, Bearing strength, Flexural strength.

Nondestructive repetitive plate bearing (RPB) tests were conducted on various test sections in state highways in Maine during April 13-15, 1976. The RPB test consists of making resilient surface deflection measurements during repetitive loadings at various radii from the load plate. The pavement system stiffness was calculated, and the resilient modulus values for the various pavement layers were determined with the Chevron computer program for a layered elastic system. A thawed analysis using nondimensional deflection curves for the various sections provided a guide to the susceptibility of the pavement systems to surface failure and pothole development. Some comparisons between stabilized and nonstabilized aggregate and soil were made with calculated stiffness values. The moduli of the various materials were also compared. The residual surface deflections during testing for several pavement systems indicated a linear logarithmic relationship with number of load applications. A relationship between the modulus of the asphalt cement concrete pavement and pavement temperature was developed for the limited temperature range during the testing.

Lomonosov Ridge Experiment: Lorex 79.
Weber, J.R., American Geophysical Union. Transactions, Oct. 16, 1979, 60(42), p.715-721, 5 refs.
Gravimetric prospecting, Drift stations, Sea ice, Seismic surveys, Oceanographic surveys.

Application of recent results in functional analysis to

the problem of water tables.
Nakano, Y., Advances in water resources, Dec. 1979, Vol.2, MP 1269, p.185-190, 7 refs.

Water table, Boundary value problems, Analysis (mathematics).

(mathematics).

The traditional viewpoint in hydrology and soil physics purports that water tables appearing in porous media described by Darcy's law and the extended Darcy's law are not singular surfaces. Several particular solutions in which singularities occur are presented as counter-examples to the traditional viewpoint and as evidence supporting the new theory that water tables are generally singular surfaces.

3- 1946

Steady state for layer profile on a temperature plate in a forced convection flow.

Hirata, T., et al, International journal of heat and mass transfer, Oct. 1979, 22(10), p.1425-1443, In English with French, Germa i, and Russian summaries. 39

Gilpin, R.R., Cheng, K.C., Gates, E.M. Ice growth, Laminar flow, Turbulent flow, Convec-tion, Temperature effects, Ice cover thickness.

Research annual report 1978-79. Alaska. University, Fairbanks, 1979, 129p. Research projects.

Investigations of surface-wave dispersion in an inhomogeneous medium by the finite difference method. Acharya, H.K., et al, Seismological Society of America. Bulletin, Oct. 1978, 68(5), p.1381-1386, 11

Bentley, C.R

Bentley, C.R.

Ice sheets, Wave propagation, Ice density, Analysis (mathematics), Antarctica—Marie Byrd Land.

Surface-wave dispersion for the ice sheet of Marie Byrd Land, in which velocity and density increase continuously with depth and gradients near the surface are steep, has been computed by solving the equations of motion directly by finite differences. No simplifying assumptions or approximations about parameter variations with depth have been made. Computer results agree well with observed data without the introduction of any anisotropy, as was needed in a previous analysis (Acharya, 1972). Tests of the assumptions made in the previous analysis show that (a) the approximation Poisson's ratio = 1/4 introduces no significant error, even though Poisson's ratio actually varies from 1/4 to 1/3 in the upper part of the ice sheet, and (b) the assumption of a constant density, required if one is to separate compressional and shear-wave displacement potentials, is unsatisfactory. (Auth.)

Power supply on construction sites of hydroelectric rower supply on construction sites of hydroelectric power plants. [Ratsional'naia organizatsiia elektros-nabzheniia stroitel'nykh ploshchadok GES<sub>1</sub>, Veits, I.E., Energeticheskoe stroitel'stvo, Nov. 1979, No.11, p.41-44, In Russian.

Industrial buildings, Electric power, Site accessibility. Cold weather construction.

34-1850

Organizing the preliminary period of the Kolyma hydroelectric power plant construction. (Organizatsiia podgotovitel'nogo perioda stroitel'stva Kolymskol

OESJ. Pavlov, B.N., et al, *Energeticheskoe stroitel'stvo*, Nov. 1979, No.11, p.44-47, In Russian. Frumkin, N.V.

Electric power, Industrial buildings, Permafrost beneath structures, Construction materials, Trans-portation, USSR-Kolyma River.

Improving the design of supports for overhead power lines of and exceeding 500 kw. [Puti sovershenst-vovaniia konstruktsii opor dlia VL 500 kV i vyshe]. Peterson, L.L., et al, Energeticheskoe stroitel'stvo, Nov. 1979, No.11, p.48-51, In Russian. 2 refs. Kurnosov, A.I., Gabliia, IU.A.

Power line supports, Foundations, Metals, Concrete structures, Permafrost beneath structures, Swamps,

Proceedings of the first all-union symposium Bios-

phere and Man. [Materialy].

Vessoiuznyl simpozium Chelovek i biosfera, 1st, Moscow, Sept. 24-28, 1973, Moscow, Nauka, 1975, 335p., In Russian.

For selected papers see 34-1853 through

34-1862. Kovda, V.A., ed. DLC QH77.R8V792

Taiga, Landscape types, Cryogenic soils, Soil erosion, Soil chemistry, Alpine landscapes, Swamps, Peat, Land reclamation, Environmental protection.

Biologic productivity and chemical element cycles in spruce-green moss central and northern taiga of the Komi Autonomous Soviet Socialist Republic. Biologicheskaja produktivnost' i osnovnye pokazateli krugovorota khimicheskikh lementov v el'nikakh-zelenomoshnikakh srednel i severnol talgi Komi

ASSR<sub>1</sub>, Zaboeva, I.V., et al, Vsesoiuznyi simpozium Chelovek Zaoucva, I.v., et al., vsesoluznyi simpozium Chelovek i biosfera, 1st, Moscow, Sept. 24-28, 1972. Materialy (Proceedings of the first all-union symposium Biosphere and Man) edited by V.A. Kovda, Moscow, Nauka, 1975, p.81-82, In Russian. Rusanova, G.V., Sloboda A.V. DLC QH77.R8V792

Taiga, Cryogenic soils, Mosses, Biomass, Soil chemistry, Chemical composition.

34-1854

34-1354
Biologic productivity and chemical element cycles in spruce-lichens in the central taiga of the Komi ASSR. Biologicheskaia produktivnost' i krugovorot khimicheskikh elementov v sosniake lishalnikovom srednei

cheskikh elementov v sosniake lishalnikovom srednei talgi Komi ASSR<sub>3</sub>, Rusanova, G.V., et al, Vsesoiuznyl simpozium Chelovek i biosfera, 1st, Moscow, Sept. 24-28, 1973. Materialy (Proceedings of the first all-union symposium Biosphere and Man) edited by V.A. Kovda, Moscow, Nauka, 1975, p.83-84, In Russian. Sloboda, A.V. DLC QH77.R8V792

Talga, Cryogenic soils, Soil chemistry, Chemical composition, Lichens, Biomass.

Scientific basis for combined studies of Alpine regions. [Nauchnye osnovy kompleksnogo issledovaniia vysokogornykh stran].

Nazarov, A.G., Vsesoiuznyl simpozium Chelovek i bi-osfera, 1st, Moscow, Sept. 24-28, 1973. Materialy (Proceedings of the first all-union symposium Bios-phere and Man) edited by V.A. Kovda, Moscow, Nauka, 1975, p.98-100, In Russian. DLC QH77.R8V792

DLC QH//.R8V/92
Alpine landscapes, Alpine glaciation, Landscape types, Cryogenic soils, Maps, Geochemical cycles, Glacial hydrology, Plant ecology, Biomass, Human factors, USSR—Caucasus.

34-1856

Microelement variations in peat-bog soils of the Microelement variations in peat-bog soils of the northwestern Russian Soviet Federated Socialist Republic during land development. Izmenenie soderzhaniia mikroelementov v torfiano-bolotnykh pochvakh severo-zapadnol zony RSFSR v protsesse ikh osvoeniiaj. Zavgorodniaia, R.E., et al, Vsesoiuznył simpozium Chelovek i biosfera, 1st, Moscow, Sept. 24-28, 1973. Materialy (Proceedings of the first all-union symposium Biosphere and Man) edited by V.A. Kovda, Moscow, Nauka, 1975, p.126-127, In Russian. Tolkka, M.A., Kalmykov, G.S. DLC QH77. R8V792

Swamps, Peat, Soil chemistry, Land reclamation.

Changes in the runoff from reclaimed marshlands in South Karelia. [Izmenenie stoka s osushaemykh bolot IUzhnot Kareli

Nesterenko, I.M., et al, Vsesoiuznyī simpozium Chelo-Nesterenko, i.m., et al, Vsesoluzhyi simpozium Cherovek i biosfera, 1st, Moscow, Sept. 24-28, 1973.

Materialy (Proceedings of the first all-union symposium Biosphere and Man) edited by V.A. Kovda, Moscow, Nauka, 1975, p.127-128, In Russian.

Andrianova, T.S. DLC OH77.R8V792

Swamps, Drainage, Peat, Soil water migration, Run-off, Soil chemistry, Soil composition.

Reclamation impact on northern peat solls. [Vliianie melioratsii na torfianye pochvy v usloviiakh Severa], Nesterenko, I.M., Vsesoiuznyi simpozium Chelovek i biosfera, Ist, Moscow, Sept. 24-28, 1973. Materialy (Proceedings of the first all-union symposium Biosphere and Man) edited by V.A. Kovda, Moscow, Nauka, "5, p.129-130, In Russian.

DLC QH77.R8V792

Swamps, Peat, Drainage, Soil water migration, Soil chemistry, Soil erosion.

Central taiga soil cover in Eastern Transbaikul. (O

Central taiga soil cover in Eastern Transbaikul. [O pochvennom pokrove srednet taigi Vostochnogo Zabalkal'ia],
Alifanov, V.M., Vsesoiuznyl simpozium Chelovek i biosfera, 1st, Moscow, Sept. 24-28, 1973. Materialy (Proceedings of the first all-union symposium Biosphere and Man) edited by V.A. Kovda, Moscow, Nauka, 1975, p.159-161, In Russian.
DLC QH77.R8V792.

Taiga, Cryogenic soils, Permafrost depth, Active layer, Mountain soils, Swamps, Permafrost hydrology.

34-1860

Role of mineral fertitizers in the increase of productivity of cryogenic soils in Eastern Transbaikal. (Rol' mineral'nykh udobrenil v povyshenii produktivnosti pochv kriosfery (na primere Vostochnogo Zabat-

kal'ia);. Gershevich, E.G., et al, Vsesoiuznyl simpozium Chelovek i biosfera, 1st, Moscow, Sept. 24-28, 1973. Materialy (Proceedings of the first all-union symposium Biosphere and Man) edited by V.A. Kovda, Moscow, Nauka, 1975, p.161-162, In Russian. Gershevich, V.D. DLC QH77.R8V792

Cryogenic soils, Meadow soils, Forest soils, Nutrient cycle, Agriculture, USSR—Transbaikal.

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genic biogeocenoses. ¿Znachenic rastitel nogo pokrova v razviti merzlotnogo biogeotsenoza,.

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Geobotanical maps and plant conservation provisions for economically developing areas of Central ard Eastern Siberia. [Geobotanicheskie karty i organizatsna okhrany rastitel nosti osvajvaemykh ratonov Sred-

nei i Vostochnoi Sibirij. Belov, A.V., Vsesotuznyi simpozium Chelovek i biosfera, 1st, Moscow, Sept. 24-28, 1973. Materialy (Proceedings of the first all-union symposium Biosphere and Man) edited by V.A. Kovda, Moscow, Nauka, 1975, p.206-207, In Russian.

D1 CQH77.R8V792 Cryogenic soils, Vegetation patterns, Geobotanical interpretation, Environmental protec-

Mountain landscape protection in Siberia. (Okhrana

gornykh landshaftov Sibirij, Krylov, G.V., ed. Novosibirsk, Nauka, 1973, 251p., In Russian. For selected papers see 34-1864 through 34-1876. Refs. passim. 34-1876 Refs passim DLC OH77 R8049

Alpine tundra, Taiga, Steppes, Environmental protection, Landscape types, Mountain soils, Soil microbiology, Cryogenic soils, Soil erosion, Revegetation, Microclimatology, Biomass.

Scientific approaches to the problems of mountain landscape preservation. [Nauchnye podkhody k prob-lemam okhrany gornykh landshafto ]. Fadeeya, N.V., et al. Okhrana gornykh landshaftov

Fadeeva, N.V., et al. Okhrana gornykh tandsnanos Sibiri (Mountain landscape protection in Siberia) edited by Krylov, G.V., Novosibirsk, Nauka, 1973, p.16-24. In Russian. 9 refs.

Aleksandrova, T.D., Mukhina, L.L., Preobrazhenskit.

DLC QH77.R8049

Environmental protection, Landscape types, Taiga, Steppes, 5 il erosion, USSR—Baykal Lake.

Peculiarities of mountain landscapes in the Krasnovarsk area and their protection. Osobennosti gornykh landshaftov Krasnoiarskogo kraja i ikh okhranaj. Kirillov, M.V., Okhrana, gornykh, landshaftov. Sibiri (Mountain landscape protection in Siberia) edited by Krylov, G.V., Novosibirsk, Nauka, 1973, p.24-26, In

DLC QH77.R8049

Alpine landscapes, Environmental protection, Alpine tundra, Taiga.

imall scale geobotanical mapping as a basis for scientific organization of Alpine vegetation protection. [Melkomasshtabnoe geobotanicheskoe kartografirovanie kak osnova nauchno) organizatsii okhrany gornot

rastitel nostij.
Belov, A.V., Okhrana gornykh landshaftov Sibiri (Mountain landscape protection in Siberia) edited by Krylov, G.V., Novosibirsk, Nauka, 1973, p.34-37, In

DLC OH77.R8049

Alpine landscapes, Environmental protection, Alpine tundra, Taiga, Mapping, Geobotanical interpretation.

Scientific and practical significance of studying partial inhomogeneity of mountain taiga soils.
[Nauchnoe i prakticheskoe znachenie izucheniia part-selliarnol neodnorodnosti lesnykh pochv chernevol

Faranov, S.A., Okhrana gornykh landshaftov Sibiri (Mountain landscape protection in Siberia) edited by Krylov, G.V., Novosibirsk, Nauka, 1973, p. 59-66, In

Russian. 8 refs. DLC QH77.R8049

Taiga, Cryogenic soils, Alpine landscapes, Environmental protection, Biomass, Soil microbiology, Soil chemistry.

14.1868

Utilization and protection of mountain forests. [Ispol'zovanie i okhrana gornykh lesovj, Beliak, V.I., et al, Okhrana gornykh landshaftov Sibiri

(Mountain landscape protection in Siberia) edited by Krylov, G.V., Novosibirsk, Nauka, 1973, p.67-70. In

Votloshnikov, V.A

DLC OH77.R8049

Alpine landscapes, Forest land, Environmental protection, Soil erosion, Forest fires.

Rational utilization of Ural Mountain forests, (Osobennosti ratsional nogo ispol zovanna gornykh lesov

Zubareva, R.S., et al, Okhrana gornykh landshaftov Sibiri (Mountain landscape protection in Siberia) edited by Krylov, G.V., Novosibirsk, Nauka, 1973, p.70-

78. In Russian. 17 refs. Kolesnikov, B.P., Smolonogov, E.P., Fil'toze, E.M. DLC QH77.R8049

Environmental protection, Forest land, Landscape types, Taiga, USSR—Ural Mountains.

Microclimatic variations and pine forest revegetation in relation to economic development of the Sayan low mountain belt, dzmenenija mikroklimata i vozobnovleniia khvotnykh porod v sviazi s promyshlennym osvoeniem lesov mzkogornogo pojasa Sajani,

Gaas, A.A., Okhrana gornykh landshaltov Sibiri (Mountain landscape protection in Siberia) edited by (Mountain landscape protection in Sheriay carted by Krylov, G.V., Novosibirsk, Nauka, 1973, p.78-87, In Russian. 10 refs. DLC QH77.R8049

Environmental protection, Mountain soils, Taiga, Revegetation, Landscape types, Microclimatology, Biomass, USSR-Sayan Mountains.

34-1871

Utilization of mountain forests in the Kuznetskiy Ba-

sin, <sub>L</sub>Ispol'zovaine gornykh lesov Kuzbassa<sub>3</sub>. Kalinii, A.M., Okhrana gornykh landshaftov Sibiri (Mountain landscape protection in Siberia) edited by Krylov, G.V., Novosibirsk, Nauka, 1973, p.87-92, In Russian

DLC QH77 R8049

Forestry, Taiga, Revegetation, Mountain soils, Environmental protection.

Forest protection in the northern Lake Baykal Basin. (Sostojanje lesov severno) chasti basseina Bajkala i

prosy ikh okhranyj. Tkachenko, A.L. Okhrana gornykh landshaftov Sibiri (Mountain landscape protection in Siberia) edited by Krylov, G.V., Novosibirsk, Nauka, 1973, p 93-98, In Russian. 2 refs. DLC QH77 R8049

Taiga, Cryogenic soils, Environmental protection. Human factors, USSR—Baykai Lake.

Role of mountain forests of eastern Transbaikal and the Lake Baykal problem. [Rol] gornykh lesov vostoka Zabaikal'ia v probleme Baikalaj. Panarin, I.I., Okhrana gornykh landshaftov Sibio

(Mountain landscape protection in Siberia) edited by Krylov, G.V., Novosibirsk, Nauka, 1973, p.98-102, In Russian. 3 refs. DLC QH77 R8049

Mountain soils, Cryogenic soils, Taiga, Environmental protection, Landscape types, USSR-Transbai-

34.1874

Resistance of some West Siberian forests. Il storchivosť nekotorykh lesnykh kompleksov Zapadnot

Sibirij, Taran, I.V., Okhrana gornykh landshaftov Sibiri (Mountain landscape protection in Siberia) edited by Krylov, G.V., Novosibirsk, Nauka, 1973, p.103-107. In Russian. 5 refs.

DLC QH77.R8049 Mountain soils, Cryogenic soils, Taiga. Landscape types, Environmental protection.

Rational use and preservation of Magadan area forests. [Ratsional noe ispol'zovanie i okhrana lesov

Magadanskoi oblastij, Snytkin, G.V., Okhrana gornykh landshaftov Sibiri (Mountain landscape protection in Siberia) edited by Krylov, G.V., Novosibirsk, Nauka, 1973, p 119-125 DLC OH77 R8049

Permafrost distribution, Mountain soils, Cryogenic soils, Taiga, Landscape types, Environmental protection, USSR-Magadan.

Protection of mountain forests as a dependable water supply basis of Transbaikal. [Okhrana gornor lesnot rastitel'nosti kak osnova dolgovremennogo vodoobespechenna Zabatkal'iaj,

Tsyganok, V.L. Okhrana gornykh landshaftov Sibiri (Mountain landscape protection in Siberia) edited by Krylov, G.V., Novosibirsk, Nauka, 1973, p.135-138.

DLC OH77.R8049

Water supply, Forest land, Taiga, Environmental protection, USSR-Transbaikal.

Economic analysis of the environmental impact of highway deicing salts.

Murray D.M., Transportation research record, 1977, No.647, p.29-40, Includes discussions by M.C. Belangie, CC Sy, and R Brenner and a closure by the author 41 refs

Snow removal, Ice removal, Chemical ice prevention, Salting, Environmental impact, Economic analysis.

34-1878

Impact of highway deicing salts on rural stream water Champagne, D.M., Transportation research record, 1977, No.647, p.47-52, 5 refs.

Roads, Salting, Ice removal, Water pollution.

Urea as a deicing agent. (Urea som avisningspreparat). Johansson, A. Cement och betong, Sep. 1970, 45(3), p. 229-308. In Swedish

p 229-308. In Swedish Concrete admixtures, Chemical ice prevention, Urea.

Methane addition to an Arctic lake in winter Welch, H.E., et al. Limnology and occanography. Jan 1980, 25(1), p.100-113, 20 refs. Rudd, J.W.M., Schindler, D.W.

Water chemistry, Gas inclusions, Oxygen, Methane, Ice cover effect.

34-1881

Ice-sheet glaciology.

Drewty, D., Progress in physical geography, Sep. 1979, 3(3), p. 313-328. Numerous refs. Research projects, Ice sheets, Radio echo soundings,

Drilling, Spacecraft, Ice composition, Models.

Drilling, Spacecraft, Ice composition, Models. The author reviews the glaciological interature since 1970, analyzing various methods of exploring ice sheets, new methods, insproved older methods, useful ones no larger actively pursued, mainly due to lack of funding. He cites some of the results and successes of the various methods and mentions several of the highly organized research projects currently in progress, both or Amer, use and in Gronnland. ress both in Amarctica and in Greenland

On upwelling driven by the melt of ice shelves and tidewater glaciers.

Greisman, P., Deep-sea resear th. Sep. 1979, 26(9A), p.1051-1065, 18 refs

Upwelling, Glacier melting, I e shelves. Water temperature.

34-1883

Polar research.

Furner, M.D., Geotimes, Feb. 1980, 25(2), p.43-44 Glacier thickness, Ice sheets, Permafrost, Drill core

analysis.

Antaicite and Afetic research studies of the past year are re-sriewed. Preliminary findings include the following. A rich and varied interobal flora has been found in rocks of the dry salleys. Major outlet glaciers from the East Antarctic ice sheet, such as the Byrd and Dawin, were found to be 1,000 m thicker near their mouths. Eighteen different amino acids, sev-eral of them unknown from modern terrestrial sources, were identified in well-preserved and uncontaminated antarctic caridentified in well-preserved and uncontaminated antarctic carbonaceous meteorites. Gee-themical investigations of the antarctic (see sheets have shown that fluctuations in the concentrations of infrate and ammonium ions, from ice and show layers of known dates, can be correlated with observed solar activity. In addition to the above studies, a field party of some 40 scientists from 7 counties worked in the Elbworth Mountains, and New Zealand scientists drilled a deep core hole in western McMurdo Sound, using annual sea ice as a drilling platform West Germany is conducting its first land-based antarctic expedition in nearly 40 yr.

34-1884

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Problems of the Arctic and the Antarctic, collection

Treshnikov, A.F., ed. New Delhi, Amerind Publishing Co., 1979, 171p., TT 75-52083, Translation of Problemy Arktiki i Antarktiki, sbornik statel, vpp.45, 1974. Refs. passim. For selected articles see 34-1974. Refs passim. For selected articles see 34-1885 through 34-1896 or B-22705 and I-22704.

Sea ice, Ice cover strength, Hydrodynamics, Glacial hydrology, Sea level, Climatic changes, Research pro-

This column includes papers devoted to the study and investigation of different aspects of actic and antarctic climatology. The first four papers deal with glacial water reserve and discharge in the Arctic Arctic cooling, large-scale sea level oscillations in the Northern Hemisphere and high relative humidity in the Arctic. Two papers are devoted to atmospheric studies in the polar regions. They cover such topics as eyelic oscillations, conjunction of certain centers of atmospheric action, characteristics of total radiation, change in wind speed and direction during geomagnetic disturbances and the relation of tomospheric troughs and plasmapause in the alternoon section. There are three papers on studies relating to the phase composition of ice, forecasting is flexical strength, and size determina-This volume includes papers devoted to the study and investigation of ice, forecasting its flexural strength, and size determina-tion of ice floes. Besides, there is a paper on the distribution of microscopic algae in Davis Sea fast ice. (Auth. mod.)

Water resources of glaciers and glacial discharge in the Arctic

Govorusha, L.S., et al, Problems of the Arctic and the Antarctic, collection of articles, 1979, Vol. 45, p.1-12, TT 75-52083, For Russian original see 30-3. 33 refs. Ivanov, V.V., Chirhov, O.P. Glacial hydrology, Glacier ablation, Runoff, Glacier

mass balance, Seasonal ablation, Seasonal variations. 14-1886

Cooling of the Arctic.

Zakharov, V.F., Problems of the Arctic and the Antarctic, collection of articles, 1979, Vol. 45, p. 13-22, TT 75-52083, For Russian original see 30-4. 14 refs. Climatic changes, Air temperature, Weather forecasting.

34-1887

Statistical structure of large-scale sea level oscilla-tions in the high latitudes of the Northern Hemi-

sphere.
Bannov-Balkov, IU.L., Problems of the Arctic and the
Antarctic, collection of articles, 1979, Vol.45, p.23-30,
TT 75-52083, For Russian original see 30-5. 5 refs. Sea level, Statistical analysis, Periodic variations.

34-1888 Secular cycle of solar activity and baric field of Earth's Northern Hemisphere.

Maksimov, I.V., et al, Problems of the Arctic and the

Antarctic, collection of articles, 1979, Vol.45, p.31-43, TT 75-52083, For Russian original see 30-6. 16 refs. Sleptsov-Shevlevich, B.A.

Solar activity, Atmospheric pressure, Ice cover, Peri-

Regime of high relative humidity of air in the Arctic. Zav'ialova, I.N., Problems of the Arctic and the Antarctic, collection of articles, 1979, Vol.45, p.44-56, TT 75-52083, FOR Russian original see 30-7. 13 refs. Humidity, Polar regions.

34-1990

Quantitative relations in phase composition of sea ice. Nazintsev, IU.L., Problems of the Arctic and the Antarctic, collection of articles, 1979, Vol.45, p.76-83, TT 75-52083, For Russian original see 30-8. 14 Sea ice, Ice salinity, Ice thermal prop rties.

34-1891

Method of forecasting flexural strength of ice cover. Ryvlin, A.IA., Problems of the Arctic and the Antarctic, collection of articles, 1979, Vol.45, p.99-108, TT 75-52083, For Russian original see 30-9. 7 refs. Ice cover strength, Sea ice, Flexural strength, Ice

salinity, Forecasting.

34-1892 Choice of algorithms for numerical determination of

Size distribution and compactness of ice floes.

Khelsin, D.E., Problems of the Arctic and the Antarctic, collection of articles, 1979, Vol.45, p.109-117, TT 75-52083, For Russian original see 30-10. 4 refs.

Sea ice distribution, Ice cover strength, Icebergs, Ice forecasting, Ice conditions, Mathematical models. 34-1893

Instability of internal waves as a mechanism of heat transfer from Atlantic waters to the Arctic Basin. Alekseev, G.V., et al. Problems of the Arctic and the Antarctic, collection of articles, 1979, Vol.45, p.118-125, TT 75-52083, For Russian original see 30-11.

Nagurnyl, A.P., Savechenko, V.G., Shpaikher, A.O. Heat transfer, Water temperature, Water waves, Ice conditions, Ocean currents, Ocean waves.

15 refs.

Lower limit of application of hydrodynamic model of

ice drift.

Khelsin, D.E., et al, Problems of the Arctic and the Antarctic, collection of articles, 1979, Vol.45, p.154-157, TT 75-52083, For Russian original see 30-13. 4 refs.

Ivchenko, V.O.

Sea ice, Drift, Hydrodynamics, Mathematical models, Icebergs.

34-1895

Microscopic algae in Davis Sea fast ice. Buïnitskii, V.Kh., et al, Problems of the Arctic and the Antarctic, collection of articles, 1979, Vol.45, p.126-137, TT 75-52083, For Russian original see 30-12. 10 refs.

Kozyrenko, T.F., Shamont'ev, V.A.

Kozyrenko, I.F., Snamont ev, v.A.
Fast ice, Cryobiology, Algae, Antarctica—Davis Sea.
Samples of fast ice taken from time of formation until melting in the spring were examined for algae. Species found at various times of the year and their relative frequency are given. The number and variety of algae and the monthly variations in the population testify to an active microscopic fauna in fast ice

34-1896

Determination of winter accretion of ice in leads with

consideration of hummocking.

Alekseev, G.V., et al, Problems of the Arctic and the Antarctic, collection of articles, 1979, Vol.45, p.158-163, TT 75-52083, For Russian original see 30-14. 4 refs.

Buzuev, A.IA.

Sea ice, Ice accretion, Ice forecasting, Hummocks, Mathematical models.

34-1897

Problems of the Arctic and the Antarctic, collection of articles, Vol.46, 1975.
Treshnikov, A.F., ed, New Delhi, Amerind Publishing

Co., 1979, 166p., TT 76-52023, Translation of Problemy Arktiki i Antarktiki, sbornik statet, vyp.46, 1975. Refs. passim. For selected articles see 34-1898 through 34-1904 or A-22711, H-22709, I-22708, I-22710 and K-22707.

Hydrodynamics, Meteorology, Ice conditions, Research projects.

This volume contains papers on the following subjects: hy-drometeorology, oceanography, ionospheric studies, ice condi-tions and topics of general nature. It iterial has also been prov-ided on the mental and physical six of participants of Soviet Antarctic expeditions and on the work done by the Arctic Research Laboratory, Point Barrow,

Possibility of long-range forecasting of oceanographic

conditions of the Kara Sea.

IAnes, A.V., Problems of the Arctic and the Antarctic, collection of articles, 1979, Vol.46, p.16-21, TT 76-52023, For Russian original see 30-3410. 11 refs. Oceanographic surveys, Hydrology, Meteorological data, Long range forecasting, Polar regions, Navigation, Kara Sea.

Evaluation of spatial scales of disturbances and deter-

Evaluation of spatial scales of disturbances and determination of some characteristics of turbulence in the Chukchi Sea.

Izmallov, V.V., Problems of the Arctic and the Antarctic, collection of articles. 1979, Vol.46, p.22-29, TT 76-52023, Translated from Problemy Arktiki i Antarktiki, sbornik statel, vpp.46, 1975. 3 refs.

Ocean currents, Turbulent flow, Chukchi Sea.

Study of fractures in consolidated pack-ice cover from radar survey data.

Gorbunov, IU.A., et al, Problems of the Arctic and the Antarctic, collection of articles, 1979, Vol.46, p.30-35, TT 76-52023, For Russian original see 30-3411. refs.

Sea ice distribution, Ice cover, Ice cracks, Remote sensing, Radar photography, Drift, Ice navigation, Pack ice.

Instability of internal waves in an ice-covered sea. Savchenko, V.G., et al, Problems of the Arctic and the Antarctic, collection of articles, 1979, Vol.46, p.76-84, TT 76-52023, For Russian original see 30-3412. refs.

Chepurina, M.A.

Ocean waves, Wave propagation, Ice cover effect, Analysis (mathematics).

Ice conditions as an index of recent trends of climatic

cooling on the lower reaches of the Yenisei.

Antonov, V.S., Problems of the Arctic and the Antarctic, collection of articles, 1979, Vol.46, p.98-105, TT 76-52023, For Russian original see 30-3413.

River ice, Ice conditions, Ice formation, Ice air interface, Climatic changes, Ice navigation, Humidity, Heat transfer, Water temperature, USSR-Yenisey

Effect of physicomechanical properties and uneven thickness of ice on the motion of ships in the autumn-

winter season.

Smirnov, V.I., Problems of the Arctic and the Antarctic, collection of articles, 1979, Vol.46, p.106-112, TT 76-52023, For Russian original see 30-3414. 7 refs. Ice navigation, Ice cover thickness, Ice mechanics, Ice physics, Seasonal variations, Plastic flow, Ice breaking, Icebreakers.

34-1904 Load-bearing capacity of ice cover and determination

of breaking strength.

Serikov, M.I., Problems of the Arctic and the Antarctic, collection of articles, 1979, Vol.46, p.152-156, TT 76-52023, For Russian original see 30-3415. 3 refs. Ice cover strength, Ice cover thickness, Ice strength, Ice breaking, Ice mechanics, Buoyancy, Bearing tests, Analysis (mathematics).

Forecasting seasonal snowmelt runoff: a summary of experience with two models applied to three drainages in the Cascade Mountains of Washington. Lettenmaier, D.P., et al, Washington (State)

n (State) Univer-Technical report, sity. Hydraulics Laboratory. Tec Nov. 1978, TR-59, 109p. PB-294 656. Waddle, T.J.

Snowmelt, Runoff forecasting, Watersheds, Models.

Reliability of 6 kV power lines in coal mines in glaze development areas. [Otsenka nadezhnosti vozdushnykh linii 6 kV ugol'nykh shakht v gololednykh

manatskov, B.M., Novocherkassk. Politekhnichesků institut. Trudy. 1972, Vol.262, p.110-117, In Russian. 1 ref.

Mining, Electric power, Power line icing, Ice loads.

Thermal insulation of roads with moderate traffic. risolation thermique des chaussées à trafic moyen, Dysli, M., Strasse und Verkehr, Nov. 1979, 65(11), p.399-406, In French. 11 refs. p.399-400, in recommendation.

34-1908

Computer analysis of freezing with water migration in time when the process is formed on snow cover surface. Kolichestvennoe issledovanie protsessa promerzaniia s migratsiei vlagi pri formirovanii na poverk-

hnosti snezhnogo pokrova vo vremenij, Medvedev, A.V., et al, *Merzlotnye issledovaniia*. 1979, Vol.18, p.3-23, In Russian. 18 refs. Melamed, V.G.

Soil freezing, Frost penetration, Stefan problem, Computer programs, Soil water migration, Frost heave, Cryogenic structures.

34,1000

Evaluating snow cover effect on temperature field of freezing rocks, allowing for the dependence of ther-mophysical snow characteristics on temperature. [Otsenka vlijanija snezhnogo pokrova na temperaturnoe pole promerzajushchikh gornykh porod pri uchete zavisimosti teplofizicheskikh kharakteristik snega ot Melamed, V.G., et al, Merzlotnye issledovaniia, 1979, Vol. 18 n. 24-33. In Russian. 9 refs.

Vol.18, p.24-33, In Russian. Medvedev, A.V.

Stefan problem, Soil freezing, Frost penetration, Snow cover effect, Frost forecasting.

Approximate calculation of permafrost thickness beneath underground pipelines. [Priblizhennyl metod rascheta moshchnosti mnogoletnego promerzaniia

gruntov pod zaglublennym truboprovodom, Kondrat'ev, V.G., Merzlotnye issledovaniia, 1979, Vol.18, p.34-36, In Russian. 4 refs. Underground pipelines, Permafrost thickness, Permafrost beneath structures, Permafrost hydrology.

34.1911

Influence of paludification and water bodies on thermal regime of rocks. [K otsenke vliianiia vodoemov i zabolochennosti na temperaturnyl rezhim gornykh po-

Garagulia, L.S., et al, *Merzlotnye issledovaniia*, 1979, Vol.18, p.37-42, In Russian. 5 refs.

Vol. 18, p.37-42, In Russian. 5 refs.

Kudriavtsev, V.A.

Permafrost thermal properties, Permafrost hydrology, Frozen rock temperature, Swamps, Perma-frost beneath lakes, Permafrost beneath rivers.

34-1912

Computerized simulation of heat transfer in ground for improving information of geocryologic surveys. [Modelirovanie na EVM teploobmennykh protsessov v gruntakh kak sposob povysheniia informativnosti merzlotnol s'emki territorii,

Tutkevich, A.A., Merzlotnye issledovaniia, 1979, Vol. 18, p. 43-52, In Russian.

Geocryology, Permafrost forecasting, Permafrost thermal properties, Heat transfer, Computerized simulation, Permafrost structure.

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34.1013

Evaluating temperature regime of ground on the basis of system analysis of the effect of variability of tem-perature forming factors. (Otsenka temperaturnogo rezhima grunta na osnove sistemnogo analiza vlijanna izmenchivosti temperaturoformiruiushchikh

Parmuzin, S.R., Merzlotnye issledovanna, 1979, Vol 18, p 53-57, In Russian 6 refs. Permafrost thermal properties, Frozen rock tempera-

ture, Snow cover effect, Analysis (mathematics).

14.1014

Development stages of geocryologic forecasting. (Ob ctapakh razvitna geokriologicheskogo prognozaj, Maksimova, L.N., Merzlotnyc issledovaniia, 1979, Vol 18, p 57-62, in Russian – 3 rets Geocryology, Permafrost forecasting, Theories, Re-

search projects.

34-1915

Types of geocryologic forecasting. (Vidy geokriologi-

cheskogo prognozaj. Maksimova, I.N., *Merziotnye issledovanna*, 1979, Vol 18, p.63-72. In Russau — 5 refs.

Geocryology, Permafrost forecasting, Permafrost hydrology, Engineering geology, Hydrogeology, Clas-

34.1916

Permafrost thawing beneath pipes with different pipe laying methods. (Oltaivanie porod pod truboi pri raz-nykh sposobakh ee zalozhenita). Zamolotchikova, S.A., *Merzlotnye issledovanna*, 1979, Vol.18, p.73-79, In Russian.

Pipelities, Emparaments, Trenching, Permatrost beneath structures, Permafrost forecasting, Ground

34-1917

Novaya Zemlya map of permafrost temperature; scale 1:2,500,000. [Merzlotno-temperaturnaia karta Novol Zemli v masshtabe 1:2,500,000].

Kondrat'eva, K.A., Merziotnye issledovaniia, 1979, Vol.18, p.80-101, in Russian. 21 refs. Maps, Permafrost structure, Frozen rock temperature, Ice cover thickness, Ice temperature, USSR-Novava Zemlya.

Rock temperatures in the Kamchatka Peninsula. (Temperatura porod Kamchatki).
Zamolotchikova, S.A., et al, Merziotnye issledovaniia, 1979, Vol.18, p.102-118, in Russian. 26 refs.
Smirnova, V.N.

Maps, Geology, Geocryology, Hydrology, Glaciation, Ground ice, Permatrost distribution, Snow cover distribution, USSR-Kamchatka Peninsula.

Rock stream structure in South Yakutia. ¡Osobennosti stroeniia kurumov IUzhnoi lAkutiij, Tiurin, A.I., et al, Merzlotnye issledovaniia, 1979, Vol.18, p.119-128, ln Russian. 6 refs. Poltey, N.F.

Geocryology, Rock streams, Rock glaciers, Ground ice, Ice structure.

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34.2101

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Taiga, Landscape development, Microclimatology, Landscape types, Economic development, Aerial surveys, Vegetation patterns, Soil formation, Soil temperature, Cryogenic soils, Soil erosion, Human fac-

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Power line icing, Ice accretion, Wind factors, Design.

34-2105

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34-2107

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Chibisov, G.A. Taiga, Forestry, Revegetation.

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34-2111

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Khvorov, N.A., et al, *Lesnoe khoziaistvo*, 1979, No.9, p.55-57, In Russian. 3 refs.
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tective vegetation, Forestry.

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Icebound rivers, Ice breakup, Ice jams.

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Soil freezing, Thermal conductivity, Hydraulics, Ground ice, Unfrozen water content.

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Glacial geology, Glacial deposits, Moraines, Glacier melting, Models.

34-2115

Snow rollers.

Snow rollers.
Goldthorpe, P.R., et al. Weather, Dec. 1979, 34(12), p.455-458, 1 ref.
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Blowing snow, Wind factors, Air temperature,

Meteorological data.

34-2116

Thermal regime of the World Ocean during the last anerimai regime of the world Ocean during the last glaciation maximum. Termicheskil rezhim Mirovogo okeana v period maksimuma poslednego oledenenita, Kagan, B.A., et al, Akademiia nauk SSSR. Doklady, 1979, 246(3), p.716-720, ln Russian. 14 refs. Piaskovskil, R.V.

Glaciation, Paleoclimatology, Sea ice, Ice formation, Water temperature, Ice water interface, Air water

Water temperature, Ice water interface, Air water interactions, Heat transfer.

The purpose of the study was to develop a model by which average ocean temperatures at present could be compared with those at the height of the last glacation (c. 1800 yrs ago). Such an integral was drawn up and the results are shown in a chart and a table. It seems that during the glaciated period mean temperature of Pacific and Atlantic Ocean water was higher than at present, while the Indian Ocean was cooler. The overall ocean temperature was higher.

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River ice, Ice navigation, Ice breaking, Construction materials, Transportation.

34.2110

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Vorontsov, V.
Channels (waterways), Sluices (hydraulic engineering), Icing, Ice navigation.

34-2120

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34-2123

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Amelin, S.V., et al, *Put'i putevoe khoziāistvo*. 1979, No. 12, p. 22-23, In Russian.
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Snowdrifts, Snow removal, Wind direction, Deflec-

tors, Roads, Models.

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Railroads, Embankments, Frost penetration, Frost heave, Snowfall, Railroad tracks, Snow removal, Winter maintenance

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teplovymi setiamij, Nagornaia, E.A., *Put i putevoe khoziaistvo*, 1979, No.12, p.37-40, In Russian. **Heat pipes, Soil freezing, Frost heave, Roads**.

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surveys, Mapping.

Minerals and raw material bases in the Baykal Amur railroad area. [Mineral'no-syre'evaia baza raiona

Kogan, S.I., et al, Razvedka i okhrana nedr, July 1979,

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Permafrost distribution, Mining, Construction materials, Charts, Logistics, Baykal Amur railroad. Construction

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Valiakh, V.M., et al, *Razvedka i okhrana nedr*, Aug. 1979, No.8, p.45-49, In Russian. Grafskit, B.V.

Aerial surveys, Airborne radar, Permafrost distribution, Mapping, Engineering geology, Bayka Amur railroad.

34.2129

Variations of resin and lipid contents in some forest trees depending on climatic conditions. Ilzmenenie soderzhaniia smol i lipidov v drevesine nekotorykh lesoobrazuiushchikh porod v zavisimosti ot klimaticheskikh uslovil<sub>1</sub>.

Fuksman, I.L., et al, Rastitel'nye resursy, 1979, 15(3), p.446-451, In Russian. 27 refs. Letonmiaki, M.N., Komshilov, N.F., Shcherbakov,

Taiga, Plant ecology, Plant physiology, Climatic factors.

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Influence of loose deposits on radioactive anomalies in mountain taiga. (O vliianii moshchnosti rykhlykh otlozhenii na parametry radioaktivnykh anomalii v us-

otlozhenii na parametry radioaktivnykh anomalii v usloviiakh gornot talgij.
Zima, A.F., et al, Russia. Ministerstvo vysshego i srednego spetsial'nogo obrazovaniia. Izvestiia vysshikh uchebnykh zavedenh. Geologiia i razvedka, July 1979, No.7, p.103-110, In Russian. 7 refs. Serdiukova, A.S., Skosyrev, V.N., Blinnikov, IU.V. Taiga. Slope processes, Sediment transport, Radioactivity, Landscape types, Mountains.

34-2131

Classification of cryogenic structures in the aeration zone of peat deposits. [Klassifikatsiia kriogennykh tekstur v zone aeratsii torfianot zalezhi],

stur v zone aeratsu tortianot zatezni, Kmitovenko, A.T., et al, *Gornyi zhurnal*, 1979, No.7, p.8-11, In Russian. 3 refs. Zelenskii, A.I.A., Balabolin, V.G. Peat, Frost penetration, Cryogenic structures, Soil water migration, Ice formation, Ground ice, Classifi-

34-2132

Determining parameters of the mechanical dehydration of frozen peat in high bogs. ¡Opredelenie para-metrov protsessa mekhanicheskogo obezvozhivaniia merzlogo torfa verkhovogo tipaj, Kmitovenko, A.T., et al, *Gornyi zhurnal*, 1979, No.10, p.18-19, In Russian. Aleksandrov\_B.M., Sherstnev, V.I. Swamps, Drying, Peat, Ground ice, Frozen ground,

Compressive properties.

34-2133

94-213
Part 1. The effect of temperature and partial melting on velocity and attenuation in a simple binary system. Part. 2. Effect of temperature and pressure on elastic properties of polycrystalline and single

Spetzler, H.A.W., Pasadena, California Institute of Technology, 1969, 258p., University Microfilms order No.70-1421, Ph.D. thesis. For abstract see Dissertation abstracts international, Sec. B., Jan. 1970, p. 3349. For short version of Pt. 1 see 26-2526.

Ice crystals, Ice melting, Temperature effects, Attenuation, Seismic velocity, Earth crust.

Water resources development.

U.S. Army Corps of Engineers. Alaska District, Anchorage, Alaska District, Corps of Engineers, Jan. 1979, 50p., A biennial report as of January 1, 1979. Water reserves, Navigation, Flood control, Research projects, United States-Alaska.

Antarctic operations, Nov. 1977-Feb. 1978. (Campagne en Antarctique Novembre 1977-Février 1978).

Lorius, C., et al, Paris, Centre National de la Recherche Scientifique, 1978, 10p., In French. 13 refs. Donnou, D.

Climatology, Gas inclusions, Isotope analysis, Antarctica—East Antarctica.

tarctica—East Antarctica.

During the 1977-1978 season the French drilled a core at Dome C to shed light on the climatic history of Antarctica as part of the international glaciological program. The techniques and equipment used are discussed and shown in figures and photographs. Intital results are presented by considering the various indicators—gas inclusions, crystal structure, impurities and isotopes in the ice—of climatic changes.

Inventory of snow cover and sea ice data.

Inventory of show cover and sea ice data.

Crane, R.G., comp., World Data Center A for Glaciology (Snow and Ice). Report, Dec. 1979, GD-7, 171p., Numerous refs. passim.

Data processing, Sea ice, Snow surveys.

The survey lists U.S. and foreign agencies which collect and organize snow and sea ice information; the kinds of products resulting from agency surveys; users of the products, sources, accuracy, availability, and period of current and historical data; product frequency, period, and area covered. Limited Southern Hemisphere data includes sea ice information around Antonties.

34-2137

Research and development work in the Division of Mechanical Engineering 1978. Ottawa, Canada, National Research Council (1979), 88p., This publication is also available in French.

Research projects, Transportation, Railroads, Roads, Marine transportation.

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McFadden, J.E., Concrete construction, Feb.1980, 25(2), p.139-144.
Concrete durability, Chemical ice prevention, Air en-

trainment.

Effect of prefreezing on the strength and deformation properties of granular soils.

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Melnik, J., Baker, R. Soil freezing, Core samplers, Soil strength, Freeze thaw tests, Soil deformation, Artificial freezing.

How to drill and produce in the Beaufort Sea. Bleakley, W.B., Petroleum engineer international. Feb. 1983, 52(2), p.23-32. Sea ice, Offshore drilling, Artificial islands, Ice pileup, Slope protection.

Presentation of sea ice ridges in general and physical characteristics of Baltic ridges for ship resistance cal-

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Sea ice, Pressure ridges, Ice structure, Ice navigation,

Ice friction.

Potential interactions between pipelines and terrain in a northern environment.

Van Everdingen, R.O., Canada. Inland Waters Directorate. National Hydrology Research Institute. Paper, 1979, No.8, 7p., In English with French sum-

Pipelines, Environmental impact.

Ice and landing surface demoulding-replica fabrica-

tion.
Lundström, G., Ulvsunda, Sweden. Flyggtekniska försöksanstalten. FFA memorandum, July 1973, No.90, 12p., 8 refs.
Replicas, Runways, Icing.

34-2144

Comparative mechanisms of cold adaptation.

Underwood, L.S., ed, American Institute of Biological Sciences. Annual Meeting, 28th, East Lansing, Michigan, Aug. 1977. Proceedings, New York, Aca-demic Press, 1979, 379p., Contains 12 papers with discussions

Tieszen, L.L., ed, Callahan, A.B., ed, Folk, G.E., ed Dl.C OP82.2C6C64

Tundra. Plants (botany), Cold tolerance, Models.

34-2145 Proceedings.

Symposium on Antarctic Meteorology and Glaciology, 1st, Tokyo, Dec. 1978, Antarctic record, Oct 1979, No.67, 180p., In English or Japanese. Refs. Glaciology, Meetings.

Graciology, Meetings.
The conference was held at the National Institute of Polar Research with the aim of summarizing and evaluating all recent meteorological and glaciological work done by JARE under the POLEX program. The volume contains 5 papers in glaciology, 5 in meteorology, 2 in cloud physics, and 3 on oxygen isotope studies. The primary concern of contributors was the interaction between the atmosphere and cryosphere at and near the arrice interface in inland Antarctica. Some observations in coastal areas are included

Summary of glaciological studies in Mizuho Plateau, East Antarctica, 1969-1975.

Ishida, T., Antarctic record, Oct. 1979, No.67, p.1-10, In Japanese with English summary. Refs. p.5-10. Ice sheets, Glaciology, Research projects, Antarctica —Mizuho Plateau.

— NIZUNO Fraceau.

A summary report of the traverse glaciology project accomplished by the Japanese Antarctic Research Expedition in 1969-1975 was published in 1978 under the title of "Glaciological Studies in Mizuho Plateau, East Antarctica, 1969-1975" as a special issue of Memoirs of National Institute of Polar Research, No.7. (See 32-2701 or F-19819). This paper outlines that summary report

Growth rates of crystal grains in snow at Mizuho Station, Antarctica.

Narita, H., et al. Antarctic record, Oct. 1979, No.67, p.11-17, 16 refs.

Maeno, N.

Snow crystal growth, Snow accur Climatology, Antarctica—Mizuho Plateau.

Measurements of the mean cross-sectional area of crystal grains in snow were made with core samples drilled at Mizuho Station, Antarctica. It was found that the cross-sectional area of crystal Antarctica. It was found that the cross-sectional area of crystal grains in snow increased with increasing depth to a depth of about 50 m. The relationship between the cross-sectional area of crystal grains and the time elapsed was essentially linear, but the growth rate of crystal grains was larger in snow at depths below 35 m. The increase in the growth rate can be attributed to the stress-enhancement or the smaller rate of snow accumulation. From the growth rate of crystal grains in snow above 35 m, the net accumulation rate at Mizuho Station was estimated to be roughly 70 kg/sq m/a. (Auth.)

34-2148

Compactive viscosity of snow and its climatic implica-

Compactive viscosity of snow and its climatic implica-tions at Mizuho Station, Antarctica. Maeno, N., et al. Antarctic record, Oct. 1979, No.67, p.18-31, Refs. p.30-31. Narita, H.

Snow accumulation, Snow compaction, Climatology, Viscosity, Snow density, Snow physics, Antarctica—Mizuho Plateau, Antarctica—Byrd Station, Antarctica—Little America V.

tica—Little America V.

The compactive viscosity coefficient of snow was obtained from a density profile at Mizuho Station. The value of the compactive viscosity coefficient was by two orders of magnitude larger than that of ordinary seasonal snow. The large value was atributed to strong bonds between constituent are particles within antarctic snow which had been aged for prolonged periods. A sharp peak of the compactive viscosity coefficient was found in a limited range of the depth around 35 m that is in a range of the density around 750 kg/cu m. In the depth range from 30 m to 40 m the layer-to-layer densities varied largely and the mean density deviated markedly from a smoothed general trend. These results suggest that a colder climate occurred repeatedly and lasted approximately 300 years before the present in the vicinity of Mizuho Station. (Auth.)

34-2149

Some problems in stratigraphic analysis of firn in

Mizuho Plateau, East Antarctica.

Watanabe, O., et al, Antarctic record, Oct. 1979, No.67, p.32-50, In Japanese with English summary. 16 refs

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Firm, Snow accumulation, Isotope analysis, Firn stratification, Oxygen isotopes, Radioactive isotopes, Stratigraphy, Climatology, Antarctica-Mizuho Pla-

Long-term variations in precipitation and surface temperature near Mizuho Station were studied by means of stratigraphic analyses of 150-m boring core. In this paper, some problems on snow stratigraphy concerning the analyses are discussed

A. S. S. Marker

First, problems on the unit of stratification are discussed in relation to visible stratigraphic elements and deposition-erosion processes. Second, phenomena of a missing layer corresponding to the hiatus in the layer formation are discussed in relation ing to the hatts in the layer formation are discussed in relation to regional characteristics and frequency of those occurrences. Precise estimation of mean annual accumulation in a certain period may be impossible without a quantitative rating of hiatus duration, and establishment of an effective method of rating should be the most important subject for the stratigraphic study. should be the most important subject to the strangraphic study. Delta-18-oxygen vertical profiles in snow layer are investigated, using the data obtained from a high-accumulation area in terms of reconsideration of the classical interpretation. As a result, it is found that a part of delta-18-oxygen oscillation was due to the variation by isotopic discrimination under snow metamorphism. (Auth.)

34-2150

Sublimation and condensation at the ice sheet surface of Mizuho Station, Antarctica,

Fujii, Y., Antarctic record, Oct. 1979, No.67, p.51-63,

Ice sheets, Ice air interface, Sublimation, Ice sublimation, Condensation, Ice surface, Glacier mass balance, Antarctica-Mizuho Plateau.

Sublimation and condensation were estimated by three different methods, that is, atmometer, bulk formula and stake methods, at Mizuho Station from Feb. 1977 to Jan. 1978. The comparison of the three different methods of obtaining the sublimation rate in the summer of 1977-1978 showed a satisfactory agreerate in the summer of 1977-1978 showed a satisfactory agree-ment, especially in the weekly values. Condensation prevails from the middle of April to the middle of September and subli-mation in the remaining seven months. The daily amount of sublimation showed its maximum, 92 mg/sq cm, on December 22 when solar radiation was at a maximum. The annual amounts of sublimation and condensation are estimated to be 4.92 g/sq cm and 0.19 g/sq cm, respectively. The present study implies that sublimation plays an important role in the heat and mass exchanges at the surface and in the metamor-phism of surface texture. (Auth.)

Numerical simulation of katabatic wind profile at Syowa Station, Antarctica.

Adachi, T., Antarctic record, Oct. 1979, No.67, p.64-74. 14 refs.

Wind (meteorology), Glacial meteorology, Antarctica -Shows Station.

The vertical profiles of the strong katabatic winds at Sys Station, Antarctica, are studied. A numerical solution of the equations of the Ekman layer above the antarctic coastal slope is obtained. It is shown that the results of the numerical simulation of the strong katabatic wind profile agree well with the observed strong katabatic wind profiles at Showa Station. (Auth. mod.)

34-2152

Some characteristics of turbulence in katabatic winds over Mizuho Plateau, East Antarctica. Kobayashi, S., et al, Antarctic record, Oct. 1979, No.67, p.75-85, 20 refs. Ishida, T.

Wind (meteorology), Snow surface, Surface roughness, Turbulence, Antarctica-Mizuho Plateau.

ness, Turbulence, Antarctica—Mizuho Plateau. Wind turbulence was observed, using sonic anemometers, on a snow surface at Mizuho Station and on a bare ice field near the Yamato Mountains in the Mizuho Plateau in 1973 by the party of the 14th Japanese Antarctic Research Expedition. Observations revealed, as to katabatic winds blowing above the two places, that the one above the latter is characterized by the presence of a hydraulic jump generated by nunataks there, resulting in a stronger turbulence than the one above the former which is stationary. Hence, a comparison is made in this paper between characteristics of turbulence and a hydraulic jump in a katabatic wind. (Auth.)

Preliminary study on the structure of the atmospheric surface layer in Mizuho Plateau, East Antarctica. Sasaki, H., Antarctic record, Oct. 1979, No.67, p.86-100, 11 refs.

Glacial meteorology, Temperature gradients, Wind

Glacial meteorology, Lemperature gradients, Wind (meteorology), Antarctica—Mizuho Plateau.

A preliminary study on the structure of the atmospheric surface layer in Mizuho Plateau was made, based on the profiles and fluctuations of wind and air temperature observed at Mizuho Station during the period June-Dec. 1972. The results are summarized. High frequency of slightly stable conditions and low frequency of unstable conditions were a characteristic feature. Mean value of roughness length was 0.24 cm, larger by one order than the values at Showa Station and the South Pole. one order than the values at Showa Station and the South Pole.
The distributions of the power spectra of wind and temperature
fluctuations and those of the cospectra of heat flux were similar
to the results reported by many investigators. Temperature oscillations, which seemed to be caused by internal wave motions,
were observed in winter. (Auth.)

Oxygen isotopic composition of fallen snow in An-

tarctica.

Kato, K., Antarctic record, Oct. 1979, No.67, p.124-135, 14 refs. In Japanese with English summary.

Oxygen isotopes, Isotope analysis, Snow composition. Precipitation (meteorology). Antarctica-

The relationship between the oxygen isotopic composition of fallen snow at Showa Station and the transportation process of

water vapor to the antarctic ice sheet has been investigated. It is found that the oxygen isotopic composition of fallen snow is largely controlled by the supply of oxygen-18-rich water vapor resulting from the approach of a circumpolar cyclone, and is closely related to the distance between the open sea and the sampling station. Taking into consideration the transportation process of water vapor to the antarctic ice sheet, the correlation between the temperature of formation and the oxygen isotopic composition of fallen snow provides information about the formation process of snow. The correlation between the monthly means of the oxygen isotopic composition of fallen snow and the surface air temperature also provides information about the formation process of snow. (Auth.)

Oxygen isotopic composition of drifting snow in

Mizuho Plateau, Antarctica. Kato, K., et al, Antarctic record, Oct. 1979, No.67, p.136-151, 19 refs. In Japanese with English sum-

Watanabe, O., Satow, K.

Oxygen isotopes, Isotope analysis, Snow composi-tion, Climatic factors, Wind factors, Antarctica—

Mizuho Plateau.

Oxygen isotopic composition of drifting snow sar. pled at the various stations along the traverse routes in Mizuho Plateau was determined in order to investigate transportation of water vapor to antarctic ice sheet resulting from the approach of a circumpolar cyclone. The oxygen isotopic composition of drifting snow in every season at the stations below 1800 m in altitude is largely controlled by the supply of oxygen-18-rich water vapor resulting from the approach of a circumpolar cyclone, but it is not so at the stations above 2000 m. A large anomaly is found in the variation with altitude of oxygen isotopic composition of drifting snow at the stations at altitudes between 3100 and 3200 m in (austral) spring. The area where the anomaly is found is the boundary between the spheres of influence of circumpolar cyclones and antarctic anticyclones, and it changes its position seasonally. In winter, Mizuho Station (2230 m in altitude) is considered to be hardly influenced by circumpolar cyclones. (Auth.)

34-2156

Oxygen isotopic composition of snow formed under an antarctic anticyclone.

Kato, K., et al. Antarctic record. Oct. 1979, No.67. p.152-163, In Japanese with English summary. refs

Higuchi, K

Oxygen isotopes, Isotope analysis, Snow composition, Precipitation (meteorology), Climatic factors, Wind factors, Antarctica—Mizuho Plateau. In order to investigate the formation process of snow under an

antarctic anticyclone and the transportation process of water vapor into the anticyclone, the oxygen isotopic composition of fallen snow at Showa Station and drifting snow and firm in Mizuho Plateau was determined. Fallen snow at Showa Station is formed by the isobaric cooling process from a cloud layer under the upper inversion. Water vapor is transported to the antarctic anticyclone and subsides in it. Snow is formed by the isobaric cooling process under the subsidence inversion. The surface air temperature is much lower than the temperature of formation of snow. Therefore, on ice sheet, water vapor moves from fallen snow to surface snow. The systematic decrease of oxygen isotopic composition of snow with depth is formed in the snow cover with well-developed depth-hoar of upward crystal growth under the influence of an antarctic anticyclone, antarctic anticyclone and the transportation process of water tal growth under the influence of an antarctic anticyclone, whereas the systematic increase results from depth-hoar with downward crystal growth under the influence of a circumpolar cyclone. (Auth.)

34-2157

Axial flow wind air-turbine NU-102 with electric eddy-current brake.

Awano, S., et al, Tokyo. National Institute of Polar Research. Memoirs. Series F, Logistics, Oct. 1979, No.3, 57p., 2 refs.

Murayama, M., Takeuchi, S. Electric power, Wind power generation, Antarctica-

Shows Station.

Shows Station.

A new axial-flow wind air-turbine NU-102, having an external diameter of 1.2 in, was developed in 1977 by the authors for narriessing the energy of high speed winds in Antarctica. This multi-blade wind-turbine is featured by the presence of a stator before the rotor, which enables the turbine to give a higher power, a higher torque at a lower rotational speed than an ordinary wind air-turbine. A 3-kW AC-DC generator is driven by the air-turbine through a planetary speed-up gear of speed ratio 6. The rotational speed of this generator can automatically be kept at a desired value, even in violent blizzards by means of an electric eddy-current brake newly developed by the authors. The brake also affords a new means for converting the wind energy directly into heat through the liquid heated in the jacket of the brake-stator. The present report describes the design of the winde evaluated in wind-tunnel tests and field tests at Showa Station. The field tests have proved that a generator output of 2.4 kW can be obtained at a wind velocity of 30 m/s, and that the rotational speed of the generator can be kept at a desired stator for the wind-turnel tests and field tests at Showa Station. the rotational speed of the generator can be kept at a desired value for variable loads and wind velocities exceeding 30 m/s

34-2158

Earth science investigations in the United States An-July 1, 1978-June 30, 1979.
Craddock, C., comp. Washington, National Academy of Sciences, 1979, 50p., Refs.
National Research Council. Polar Research Board.

Research projects, Bibliographies, Ice sheets, Glacial

geology.

This is the eleventh in a series of annual reports on work in the earth sciences carried out as a part of the U.S. Antarctic Research Program. The material is arranged alphabetically by investigator, with affiliation, laboratory and field work, publications issued or in press, and future programs. Two tables of contents are provided; one arranged alphabetically by investigator, and the other by institution. tor, and the other by institution.

Report on United States antarctic research activities for February 1976-October 1977; United States antarctic research activities planned for October 1977-September 1978.

ational Research Council. Polar Research Board, National Academy of Sciences-National Research Council. Report to SCAR, June 1977, No.19, 77p., Refs. p.55-65.

Refs. p.55-65.

Research projects, Antarctica.
Information is presented on the U.S. Antarctic Research Program completed during the period Feb. 1976 to Mar. 1977, in progress from Mar. 1977 to Oct. 1977, and planned for Oct 1977 through Sep. 1978. Research activities in the fields of atmospheric sciences, earth sciences, and biology are summarized, as well as research vessel operations, and information activities. U.S. stations and scientific personnel, World Data Center A subcenters, and members of the Polar Research Board and SCAB working srupes are listed. A bibliography is innd SCAR working groups are listed. A bibliography is in

Report on United States antarctic research activities for February 1977-October 1978; United States antarctic research activities planned for October 1978-September 1979.

National Research Council. Polar Research Board, National Academy of Sciences-National Research Council. Report to SCAR. June 1978, No.20, 87p., Refs. p.55-75.

Refs. p.55-75.

Research projects, Antarctica.
Information is presented on the U.S. Antarctic Research Program completed during the period Feb. 1977 to Mar. 1978, in progress from Mar. 1978 to Oct. 1978, and planned for Oct. 1978 through Sep. 1979. Research activities in the fields of atmospheric sciences, earth sciences, and biology are summarized, as well as research vessel operations, and information programs. Personnel, World Data Center A subcenters, and the members of the Polar Research Board and SCAR working groups are listed. A bibliography is included.

Report on United States antarctic research activities for February 1978-October 1979; United States Antarctic research activities planned for October 1979-September 1980. National Research Council. Polar Research Board,

National Academy of Sciences-National Research Council. Report to SCAR, June 1979, No.21, 92p., Refs. p.61-80.

Research projects, Antarctica.

Research projects, Antarctica.

This report contains information on the U.S. Antarctic Research Program completed during the period Feb. 1968 to Mar. 1979, in progress from Mar. 1979 tp Oct. 1979, and planned for Oct. 1979 through Sep. 1980. Activities in the following areas are reported: atmospheric sciences, earth sciences, biology, research vessel operations, and information programs. In addition, listings are provided of U.S. stations and scientific personnel, World Data Center A subcenters, and the memberships of the Polar Research Board and SCAR working groups. A bibliography is included. ography is included.

34-2162

British Antarctic Survey, 1978-79. Polar record, Sep. 1979, 19(123), p.605-612. Research projects, Glaciology, Ice shelves, Snow sur-

veys, Ice cores.

veys, Ice cores.

Five main British Antarctic Survey stations were occupied throughout the year: Faraday, Halley, Signy, Grytviken, and Rothera. Support for research programs and relief operations were provided by the two BAS ships. John Biscoe and Bransfield, with assistance from two Twin Otter aircraft and HMS Endurance. The research program included studies in marine biology, limnology, terrestrial biology, geology and land geophysics, glaciology, and the atmospheric sciences. During the season, the new Rothera station was completed and a new ionor-best in the season, the new Rothera station was completed and a new ionor-best in the season. spherics laboratory was installed at Halley The I The Rothers com-

The state of the s

Model of a stochastically driven ice sheet with planetary wave feedback. Oerlemans, J., Tellus, Dec. 1979, 31(6), p.469-477,

With Russian summary. 31 refs. Ice sheets, Ice models, Ice mechanics.

Ice thickness climatology for Canadian stations. Richardson, F.A., et al. Toronto, Canada, 1975, 60p., 14 rate

Ice cover thickness, Snow depth, Climatology, Statistical dualities, Canada

34-2165

Alaska energy project phase 2: planning energy technologies for a new Alaska community. Final report. Alaska. Department of Commerce and Economic Development. Division of Energy and Power Development, Anchorage, Alaska, 1978, 206p., RLO-1002-TO3. 16 refs.

Urban planning, Environmental impact, Energy conservation.

34-2166

Investigations of the basic forces involved in the adhe-

Investigations of the basic forces involved in the adnesion of ice to highway surfaces.

Ashworth, T., et al. U.S. Department of Transportation. University research report, Sep. 1979, DOT/R-SPA/DPB-50/79/28, 109p., 65 refs. Weyland, J.A.

Ice adhesion, Ice strength, Interfacial tension, Roads, Temperature effects.

34-2167

Internal friction of ice.

Oguro, M., Scppyo, Dec. 1979, 41(4), p.233-237, In Japanese with English summary. 15 refs. Ice friction, Internal friction, Latticed structures.

34-2168

Movement of dislocations in ice and its plastic defor-

Fukuda, A., Seppyo, Dec. 1979, 41(4), p.239-244, fn Japanese with English summary. 11 refs. Ice deformation, Plastic deformation, X ray analysis.

34-2169

Friction of ice.

Tushima, K., Seppyo, Dec. 1979, 41(4), p.245-251, In Japanese with English summary. 30 refs. Ice friction, Ice mechanics, Ice adhesion.

34-2170

Structure and properties of grain boundaries in ice. Hondoh, T., Seppyo, Dec. 1979, 41(4), p.253-257, In Japanese with English summary. 22 refs. Ice structure, Boundary layer.

34-2171

Twin structures in ice.

Furukawa, Y., Seppyo, Dec. 1979, 41(4), p.259-265, in Japanese with English summary. 37 refs. Ice crystal structure, Snow crystal structure, Snow crystal growth.

34-2172

Time series analyses on the maximum depth of snow

to series analyses on the maximum upon cover in Akita city.

Ito, T., Scppyo, Dec. 1979, 41(4), p.267-275, In Japanese with English summary. 19 refs.

Snow depth, Climatology, Periodic variations, Statis-

tical analysis.

34-2173 Upper limits of heaving pressure obtained by observing pore water pressure under partial soil freezing. Takashi, T., et al. Seppyo. Dec. 1979, 41(4), p.277-287, In Japanese with English summary. 28 refs. Ohrai, T., Yamamoto, H., Okamoto, J.

Frost heave, Soil water migration, Water pressure, Unfrozen water content, Ice lenses.

34-2174

Soviet glaciological investigations in 1978. ¡Sovetskie gliatsiologicheskie issledovaniia v 1978 godu<sub>1</sub>, Kotliakov, V.M., et al, Akademiia nauk SSSR. Institut geografii. Materialy gliatsiologicheskikh issledovanii. Khronika obsuzhdeniia, 1979, Vol 35, p.5-12. In Russian.

Lapina, I.IA. Polar regions, Glaciation, Mountain glaciers, Glacial hydrology, Alimentation, Ice conditions, Glacier ablation, Ice drills, Moraines, Glacier oscillation.

ablation, Ice drills, Moraines, Glacier oscillation. Glacological research projects conducted by Soviet institutions during 1978 in various parts of the USSR, in the Arctic and the Antarctic are outlined. Antarctic programs included participation of the Institute of Geography in the IAGP. Highlights of this program were the discovery of a relatively warm water mass near the bottom of the Ross Sea, taking of an 800 m core at Novolazarevskaya, the formulation of an antarctic model of glaciation, and development of an algorithm for calculating the movement and thermal state of large ee sheets. The Institute of Mechanics of Moscow State University worked out a method of computing ice temperature and rate of accumulation from the horizontal projection of the tongue of a stationary glacier. From ancient moraines of Meserve Glacier, atmospheric temperature and precipitation variations in McMurdo Sound were computed for the last million years.

International symposium on computation and forecasting of runoff from glaciers and glaciated areas. casting of runoit from graciers and graciers when the frognozu stoka's lednikov i iz lednikovykh raionovy, Chizhov, O.P., Akademiia nauk SSSR. Institut geo-

Chizhov, O.P., Akademiia nauk SSSR Institut geo-Khronika obsuzhdeniia, 1979, Vol.35, p.13-19, In Rus-

Meetings, Glaciology, Glacial hydrology, Glacial lakes, Glacier surfaces, Heat transfer, Heat balance, Glacier ablation, Models.

34-2176

Workshop on the world glacier inventory and meeting of the snow and ice commission in Switzerland. [Seminar po vsemirnomu katalogu lednikov i zasedanita

komissii snega i l'da v Shvettsariij, Kotliakov, V.M., et al, Akademiia nauk SSSR. Kothakov, V.M., et al, Akademia nauk SSSR. Institut geografii. Materialy gliatsiologicheskikh issledovanii. Khronika obsuzhdeniia, 1979, Vol.35, p.19-24, ln Russian.

Dreter, N.N., Makarevich, K.G., Suslov, V.F.

Meetings, Glaciers, Alpine glaciation, Snow cover, Ice cover, Research projects.

34-2177

Glacial-nival systems of the Pamirs and Gissar-Alay. [Nival'no-gliatsial'nye sistemy Pamira i Gissato-Alaia],

Kotliakov, V.M., et al. Akademiia nauk SSSR. Kottakov, vid., et al., Akadetitia induk obsid. stitut geografii. Materialy gliatsiologicheskikh is-sledovanii. Khronika obsuzhdeniia, 1979, Vol.35, p.25-33, In Russian with English summary. 24 refs. p.25-33, In Russian with English summary. Krenke, A.N.

Glaciers, Naleds, Ground ice, Snow cover distribution, Glacier ablation, Alimentation.

34-2178

Extent of glaciation in the Pamirs and factors affecting it. ¡Stepen' oledeneniia Pamira i opredeliaiushchie ce faktory1,

Rototaeva, O.V. Akademija nauk SSSR. geografi. Materialy gliatsiologicheskikh is-sledovanii. Khronika obsuzhdeniia, 1979, Vol.35, p.33-41, In Russian with English summary. 11 refs. Glaciation, USSR--Pamirs

34-2179

Plotting elevations of the alimentation and accumulation lines for Gissar-Alay glaciers. ¡Postroenie polet vysoty granitsy pitaniia i akkumuliatsii dlia lednikovoi

sistemy Gissaro-Alaia<sub>1</sub>, Rototaeva, O.V., Akademiia nauk SSSR. NV., Akademia nauk SSSK. msi.... Materialy glatsiologicheskikh is-Khronika obsuzhdenita. 1979, Vol.35. geografii. sledovanii. .42-51, In Russian with English summary. Mountain glaciers, Alimentation, Glacier ablation, Mass balance, Snow line, Glacier surfaces, Heat balance. Snow cover distribution. Charts.

34-2180

Data on glaciological processes in the recrystallization zone of ice formation in highlands. Nekotorye dannye o ghatsiologicheskikh protsessakh v vysokogornol rekristallizatsionnol zone l'doobrazo aniia, Diurgerov, M.B. Akademia nauk SSSR. Institut geografii. Materialy gliatsiologicheskikh iseledovanii. Khronika obsuzhdeniia, 1979. Vol.35, p.52-56, In Russian with English summary. 5 refs. Alpine glaciation, Ice formation, Glacier surfaces, Snow cover distribution, Alimentation, Snow accumulation, Snow recrystallization.

Vertical air temperature gradients in the Pamirs. iK voprosu o vertikal'nykh gradientakh temperatury voz-

dukha na Pamirej, Davidovich, N.V., Akademiia nauk SSSR. geografii. Materialy gliatsiologicheskikh is-sledovanii. Khronika obsuzhdeniia, 1979, Vol.35. p.56-61, In Russian with English summary. 7 refs. Mountain glaciers, Glacier surfaces, Air temperature, Temperature gradients, Glacial meteorology, Mapping.

Vegetational indices of precipitation in the Alpine belts of the Pamirs. (Fitoindikatsiia osadkov v vysoko-

p.61-67, In Russian with English summary. Kadomtseva, T.G., Savich, A.A.

Precipitation (meteorology), Alpine landscapes, Plant ecology, Ecosystems, USSR-Pamirs.

Mineralization of glacial rivers in the Pamirs.

Materially glacial substitution of glacial rivers.

Materially glacial glacial particular of glacial rivers.

Mineralization, Water chemistry, Mountain charles. Charles hadralon, Water chemistry, Mountain charles.

tain glaciers, Glacial hydrology.

Ground ice and naleds in the Pamirs. (O podzemnykh

l'dakh i nalediakh Pamiraj. Koreisha, M.M., Akademiia nauk SSSR. Institut geografii Materialy gliatsiologicheskikh issledovanii. Khronika obsuzhdeniia, 1979, Vol.35, p.71-76, In Rus-

sian with English summary. 11 refs. Permafrost distribution, Naleds, Ground ice, Perma-frost hydrology, USSR—Pamirs.

Summer heat balance and environmental conditions of periglacial naleds in the Pamirs. (Osobennosti te-plovogo balansa i uslovit soshchestvovaniia priled-nikovykh naledel Pamira v etnec vremia). Lebedeva, I.M., Akademiia nauk SSSR.—Institut geo-

likkovski filadet ranna v čitice vennaj, Lebedeva, I.M., Akademija nauk SSSR. Institut geo-grafii. Materialy gliatsiologicheskikh issledovanii. Khronika obsuzhdeniia, 1979, Vol.35, p.76-81, In Rus-

sian with English summary. 12 refs Alpine landscapes, Glacial hydrology, Naleds, Water supply, Moraines, Water pollution.

Geological action of glaciers in the Eastern Pamirs. O geologicheskol deiateľ nosti lednikov Vostochnogo Pamiraj.

Demchenko, V.V., Akademna nauk SSSR, geografi. Materialy glasisologicheskikh is-sledovanh. Khromka obsuzhdeniia. 1979. Vol.35, p.81-85. In Russian with English summary. 3 refs. Mountain glaciers, Glacier flow, Glacial erosion, Snow cover distribution, Alimentation, Moraines, Glacial hydrology, Runoff.

Late quaternary ice cover of the Pamirs. (Pozdnechetvertichnyt lednikovyi chekhol Pamiraj, Grosval'd, M.G., et al, Akademiia nauk SSSR

stitut geografii Materialy gliatsiologicheskikh is-sledovanii. Khromka obsuzhdeniia. 1979, Vol.35, p.85-97, In Russian with English summary. 32 refs. Orbankin, V.N.

Alpine glaciation, Origin, Ice formation, Topographic effects, Mountain glaciers, Maps, USSR—Pamirs.

Phsiographic regionalization of the Pamirs. [K voprosu o fiziko-geograficheskom ratonirovanii Pamira, Kadomtseva, T.G., Akademia nauk SSSR. Institut geografii Materialy gliatsiologicheskikh is-sledovanii. Khronika obsuzhdeniia, 1979, Vol.35, p.98-100. In Russian with English summary. 12 refs. Alpine glaciation, Topographic effects, Glacier flow, Glacial erosion, Glacial hydrology, Glacial rivers, Alpine landscapes, Charts.

Regionalization of the Pamirs for tourist maps. [Opyt rekreatsionnogo ralonirovaniia Pamiraj, Suprunenko, IU.P., Akademia nauk SSSR. geografii. sledovanii Materialy gliatsiologicheskikh is-Khronika obsuzhdeniia, 1979, Vol.35, p.101-108, In Russian with English summary.

Alpine glaciation, Alpine landscapes, Mapping, USSR—Pamirs.

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Snow cover of the Altai-Sayan area, (Snezhny) pokrov Altae-Saianskoi oblastii,

Reviakin, V.S., et al. Akademna nauk SSSR — Institut geografii. — Materialy ghatsiologicheskikh is-sledovanii. — Khronika obsuzhdenna, 1979, Vol 35, p.109-120. In Russian with English summary. — 48

River basins, Snow cover distribution, Snow water equivalent, Alpine landscapes, Snow depth, Snow density, Charts.

Snow cover distribution in the mountains of Tadzhi-

Snow cover distribution in the mountains of I adamistating (Osobennosti zaleganiila snezhnogo pokrova v gornykh ralonakh Tadzhikistana), Burichenko, A.I., et al., Akademiia nauk SSSR. Institut geografii. Materialy gliatsiologicheskikh issledovanh. Khronika obsuzhdeniia, 1979, Vol.35, p.120-126, In Russian with English summary. 5 refs.

River basins, Snow cover distribution, Mapping, Snow depth, Snow water equivalent, USSR—Tadzhikistan.

34.2192

Topographic effect on snow cover distribution in mountains. ¡Zakonomernosti vliianiia rel'efa na zaleganie snezhnogo pokrova v gornykh raionakh], Chirkova, A.A., Akademiia nauk SSSR. Institut geo-Chirkova, A.A., Akademia nauk SSSR. Institut genafii. Materialy gliatsiologicheskith issledovani. Khronika obsuzhdeniia, 1979, Vol.35, p.126-133, In Russian with English summary. 7 refs. River basins, Snow cover distribution, Snow depth, Snow surveys, Snow accumulation, Topographic factors, Meteorological factors, Mountains.

Two criteria determining the structure of snow surveying and precipitation measuring networks in mountain basins. [O dvukh kriteriiakh, opredeliaiushchikh sostav snegomerno-osadkomernol seti v gor-

chikh sostav snegomerno-osadkomernoi seti v gor-nykh basselnakh, Getker, M.I., et al, Akademiia nauk SSSR. Institut geografii. Materialy gliatsiologicheskikh is-sledovanii. Khronika obsuzhdeniia, 1979, Vol.35, p.133-139, In Russian with English summary. 6 refs.

Shentsis, I.D.
River basins, Snow surveys, Snow cover distribution, Snow depth, Snow water equivalent.

34-2194

Landscape-geographic technique of mapping snow cover under complicated orographic conditions. ¡Landshaftno-geograficheskii metod kartirovaniia snezhnogo pokrova v usloviiakh slozhnoj orografii, Kondakova, N.L., Akademiia nauk SSSR. Institut Rondakova, N.L., Akaderinia nauk 353R. Institut geografii. Materialy gliatsiologicheskikh is-sledovani. Khronika obsuzhdeniia, 1979, Vol.35, p.139-143, In Russian with English summary. 3 refs. Mountains, Snow surveys, Mapping, Snow accumula-tion, Snow depth, Avalanche forecasting.

34.7105

Extreme snow conditions and their role in landscape formation. [Ekstremal'nye usloviia snezhnosti i ikh

rol' v formirovanii landshafta), lAshina, A.V., Akademiia nauk SSSR. Institut geo-grafii. Materialy gliatsiologicheskikh issledovanii. Khronika obsuzhdeniia, 1979, Vol.35, p.143-146, ln

Russian with English summary. 6 refs.

Landscape types, Snow cover distribution, Snow-drifts, Snow depth, Snow recrystallization, Snow cover stability, Avalanches, Landscape development.

Satellite surveys of snow cover for calculating spring flood hydrographs. ¡Aerokosmicheskie metody izu-cheniia snezhnogo pokrova i ikh ispol'zovanie dlia ras-

cheta gidrografa vesennego polovod'iaj, Deleur, M.S., Akademiia nauk SSSR. Institut geo-grafii. Materialy gliatsiologicheskikh issledovanii. Khronika obsuzhdeniia, 1979, Vol.35, p.146-154, In

Russian with English summary. 4 refs. Aerial surveys, Spaceborne photography, Snow cover, Snow water equivalent, Flood forecasting.

Analyzing distributions of maximum snow reserves on glaciers and improving snow surveying techniques. [Analiz raspredeleniia maksimal'nykh snegozapasov na lednikakh i ratsionalizatsiia snegomernykh rabot], Diurgerov, M.B., et al. Akademiia nauk SSSR. Intitut energii. stitut geografi. Materialy gliatsiologicheskikh issledovanh. Khronika obsuzhdenia, 1979, Vol.35, p.155-159, In Russian with English summary. 5 refs. Zhuk, V.A., Pylev, I.V.

Glacier surfaces, Snow cover distribution, Snow surveys, Glaciers, Water balance.

34-2198

Snow survey techniques in mountain glacier basins. K metodike snegos"emok v gorno-lednikovykh bas-

seinakhi, Aksoemiis jouk 1558 jastilu ge grafii. Materialy gliatsiologicheskikh issledovanh. Khronika obsuzhdenia, 1979, Vol.35, p.159-168, In Russian with English summary. 13 refs.
River basins, Mountain glaciers, Snow cover distribu

Using distribution functions in calculating seasonal snow melting on slopes around the Dzhankuat glacier. (Ispol'zovanie funktsil raspredeleniia dlia raschetov taianiia sezonnogo snega na sklonakh, okruzhaiush-chikh lednik Dzhankuat<sub>1</sub>,

Pylev, I.V., et al, Akademiia nauk SSSR. Institut geo-grafii. Materialy gliatsiologicheskikh issledovanh. Khronika obsuzhdeniia, 1979, Vol.35, p.169-173, In Russian with English summary. 12 refs. Barke, V.V.

Mountain glaciers, Slope orientation, Snow cover distribution, Snow melting.

34-2200

34-2199

High accuracy phototachymeters for studying glacier movement. (Primenenie vysokotochnogo svetodal'-nomera dlia issledovaniia dvizheniia lednikov<sub>1</sub>, Volkonskil, B.V., et al, Akademiia nauk SSSR. Institut geografii. Materialy gliatsiologicheskikh issledovanii. Khronika obsuzhdeniia, 1979, Vol.35, p.173-178, In Russian with English summary. 5 refs. Glacier flow, Flow rate, Measuring instruments.

34-2201

Studies of heat and mass transfer at the lower surface of the Ross Ice Shelf. [Issledovaniia teplo- i massoob-mena nizhnei poverkhnosti shel'fovogo lednika

Zotikov, I.A., et al, Akademiia nauk SSSR. geografii. Materialy gliatsiologicheskikh is-sledovanii. Khronika obsuzhdeniia, 1979, Vol.35,

p.178, In Russian. Zagorodnov, V.S., Rafkovskii, IU.V. Ice shelves, Ice melting, Ice accretion, Subglacial observations, Water transport, Ocean currents, Ice water interface, Heat transfer, Phase transformations, Ice coring drills, Antarctica—Ross Ice Shelf.

A joint American-Soviet project, financed by the National

A joint American-Soviet project, financed by the National Science Foundation for measuring mass balance at the lower Ross Ice Shelf surface, began in 1976/77. The program included measurements of accretion and melting rates at the ice-water interface, structure and movement of subglacial currents, and ice core drilling through the shelf. Phase transformations were studied by special ultrasonic devices. Quartz thermometers used indicated two subglacial isothermal water layers. Ice cores from a 416 m hole revealed an upper snow-firn layer 45 m thick followed by vesicular ice down to 410 m and the lower 6 meters of water permeable ice. Core samples obtained were prepared for further chemical and isotope analyses.

34-2202

Problems in studying glaciological terminology. [Glavnye zadachi terminologicheskoi raboty v oblasti gliatsiologii<sub>)</sub>, Kotliakov, V.M. , Akademiia nauk SSSR. Materialy gliatsiologicheskikh is-Khronika obsuzhdeniia, 1979, Vol.35, geografii. sledovanii.

p.179-184, In Russian with English summary. Glaciology, Terminology, Mountain glaciers, Glacial hydrology, Periglacial processes, Glacier ice, Naleds, Ground ice, Snow cover, Avalanches, Theories, Re-

search projects.

Proble as in glaciological terminology and ways of systematization. [Nekotorye problemy sovremenno] gliats ologicheskol terminologii i puti ee sistematizat-

, Akademiia nauk SSSR. Materialy gliatsiologicheskikh is-Khronika obsuzhdeniia, 1979, Vol.35, geograi." p.184-191. In Russian with English summary.

Glaciology, Terminology.

Geomorphological processes developing on artificial structures in the nivation-glaciation zone of the Khibiny Mountains. (Tekhnogennye geomorfologi-cheskie protsessy nival no gliatsial not zony (na pri-

mere Khibin)<sub>1</sub>, Semekhin, IU.V., et al, Akademiia nauk SSSR. Khronika obsuzhdeniia, 1979, Vol.35, sledovanů. K p.192-195, In Russian with English summary. 1 ref Miagkov, S.M., Vashchalova, T.V.

Quarries, Tailings, Slope processes, Solifluction, Ground ice, Rock glaciers, Periglacial processes.

34-2205

Glacial mudflows, not related to glacier-damned lakes, in the Gerkhozhan-Su Basin, North Caucasus. Formirovanie gliatsial'nykh selet neproryvnogo genezisa v basseine Gerkhozhan-Su na Severnom Kav-

kazej, Fleishman, S.M., et al, Akademiia nauk SSSR. stitut geografii. Materialy gliatsiologicheskikh is-sledovanii. Khronika obsuzhdeniia, 1979, Vol.35, p.195-198, ln Russian with English summary. 6 refs. Seinova, I.B., Zolotarev, E.A.

Slope processes, Mudflows, Ground ice, Ice lenses, Ice melting.

34-2206 Hydrometeorological conditions of the formation of

Hydrometeorological conditions of the formation of snow-loaded streams. [Gidrometeorologicheskie usloviia formirovaniia vodosnezhnykh potokov], Freidlin, V.S., Akademiia nauk SSSR. Institut geografii. Materialy gliatsiologicheskikh issledovanii. Khronika obsuzhdeniia, 1979, Vol. 35, p. 198-200, In Russian with English summary. 5 refs.

Mountains, River basins, Slope processes, Runoff,

Snow melting, Streams, Slush.

34-2207

Activities of snow-carrying streams. ¡Sledy deistviia

vodosnezhnykh potokovj, Sapunova, G.G., et al, Akademiia nauk SSSR. satiut geografii. Materialy gliatsiologicheskikh is-sledovanii. Khronika obsuzhdeniia, 1979, Vol.35, p.201-202, In Russian with English summary. 3 refs. apunov, V.N.

Slope processes, Snowmelt, Runoff, Slush, Streams,

34-2208

Large runoff values from glacier basins located in the dry climate zone of the Altai. (O bol'shikh velichinakh stoka iz nekotorykh lednikovykh basselnov v naibolee kontinental'nom raione Altaia,

Gerasimenko, O.M., Akademiia nauk SSSR. Institut geografii. Materialy gliatsiologicheskikh issledovanii. Khronika obsuzhdeniia, 1979, Vol.35, p.203-204, In Russian with English summary. 2 refs. River basins, Mountain glaciers, Glacial hydrology, Punoff. Climatic factors. Runoff, Climatic factors.

34-2209

Pleistocene glaciation of Spitsbergen. [O pleistot-Petristockie gatanton in Spristorgene, petristorsenoyykh oledeneniiakh na Shpitsbergene, Punning, IA.-M.K., et al, Akademiia nauk SSSR. Institut geografii. Materialy gliatsiologicheskikh isseledovanii. Khroniika obsuzheniia, 1979, Vol.35, p.204-208, In Russian with English summary. 9 refs. Troitskil, L.S.

Moraines, Radioactive age determination.

34.2210

Moisture balance in the system Antarctic ice sheet Mosture balance in the system Antarctic ice sneet surface-atmosphere. [Balans vlagi v sisteme "poverk-hnost' lednikovogo pokrova Antarktidy-atmosfera"], Aver'ianov, V.G., Akademiia nauk SSSR. Institut geografii. Materialy gliatsiologicheskikh issledovanii. Khronika obsuzhdeniia, 1979, Vol. 35, 200 211. [B. Bustin with Earlich with State of the State of t p.209-211, in Russian with English summary. 4 refs. Land ice, Ice sheets, Mass balance, Ice air interface, Moisture transfer, Evaporation, Antarctica.

Mass balance components of the ice sheet surface, related to Mass balance components of the ice sheet surface, related to atmospheric moisture evycles, were used in calculating moisture circulation in the whole system. Water balance structure in Antarctica was characterized by a very high runoff coefficient of 90% compared to 70% for the Arctic and 40% for the total land mass of the Earth. This difference is explained by surface specifics of the only continental is cover of the planet and severe climate with insignificant atmospheric precipitation and very low evaporation from the surface.

34-2211

Thermal capacity of sea ice and its effect on ice cover melting in Arctic seas. Effektivnaia teploemkost' morskogo l'da i ee vliianie na protsess taianiia ledianogo pokrova arkticheskikh morel<sub>1</sub>, Fatko, L.I., Akademiia nauk SSSR. Institut geografii.

Materialy gliatsiologicheskikh issledovanii. Khronika obsuzhdeniia, 1979, Vol.35, p.211-213, In

Russian with English summary. 7 refs. Seaice, Polar regions, Heat capacity, Ice melting, Ice cover thickness, Water temperature, Subglacial observations.

34-2212

The same of the same same is a second state of the same of the sam

Mappable indices of glacier surface orientation. (O kartografiruemom pokazatele orientatsii poverkhnosti

lednikova Materialy gliatsiologicheskikh is-Khronika obsuzhdeniia, 1979, Vol.35. geografii. sledovanii. p.214-216, In Russian with English summary. 8 refs. Mountain glaciers, Glacier surfaces, Orientation,

Annotated list of Soviet literature on glaciology for 1976. (Annotirovanny) spisok sovetskol literatury po

ghatsiologii za 1976 godj. Kothakov, V.M., et al, Akademiia nauk SSSR. Instrut geografii. Materialy ghatsiologicheskikh isledovanii. Khronika obsuzhdenna, 1979, Vol.35, p.217-288, In Russian with English foreword. 660

Lapina, LIA, Chernova, L.P. Bibliographies, Glaciology.

Contains 13 references on the Antarctic

34-2214

Antarctica: commission reports, vol.18, (Antarktika:

Antarctica; commission reports, vol.18. [Antarktika; doklady komissii, vypusk 18],
Akademiia nauk SSSR Mezhduvedomstvennaia komissna po izucheniiu Antarktiki, Moscow, Nauka, 1979, 215p., In Russian. Refs.
DLC G576.A65

Ice, Snow, Oceanography, Meteorology, Geology.

This column contains papers in geology, terrestrial and marine biology, oceanology, glaciology, and medicine. For individual papers, see B-22891 through B-22893, C-22882, E-22876 through J-22884, F-22884, F-22884, F-22884, F-22884, F-22884, F-22884, F-2884, F-2888, F-28

34-2215

Heat exchange between ice cover and atmosphere in East Antarctica. ¡Obmen teplovol energiel mezhdu lednikovym pokrovom i atmosferol v Vostochnol Antarktides

Aver'ianov, V.G., Antarktika: doklady komissii, 1979, No.18, p.91-96, 7 refs., In Russian. D1.C G576.A65

Snow air interface, Ice air interface, Ice heat loss, Glacier heat balance, Heat balance, Ice heat flux, Antarctica—Mirnyy Station, Antarctica—Vostok

strface, in the atmosphere above it, and at the ice-air interface are studied at Mirnyy and Vostok Stations. The main source of heat energy at the ice cover edge is heat from atmospheric moisture crystallization, while at the center of the ice sheet it is from heat advection from the sea. Low-frequency radiation is the primary mechanism for both surface and atmospheric heat loss in both regions.

34.2216

Snow cover metamorphism on the glacier slope near the Molodezhnaya oasis. (Metamorfizm snezhnogo pokro a na lednikovom sklone v ratone oazisa Molodezlinogor

Vontkovskii, K.F., Antarktika: doklady komissii, 1979, No.18, p.97-105, 4 refs., In Russian. DLC G576.A65

Snow recrystallization, Regelation, Seepage Snow compaction, Metamorphism (snow), Antarctica-Molodezhnaya Station.

Molodezhnaya Station.

The results of observing processes of snow cover metamorphism in the Molodezhnaya area are presented. The snow cover changes into firm with ice veins during the warin season. Processes of regelative recrystallization can recend during later warm periods if the given layer is in a water infiltration zone. Mechanical densification of snow cover during accumulation facilitates more intense formation of firm granules. Smoothing of the snow surface during summer slows firmification.

34-2217

Analysis of heat and mass exchange during thermal drilling. [Analiz teplo-massoobmena pri kolonkovom burenii skvazhin plavleniem].

Kudriashov, B.B., et al, Antarktika: doklady komissii, 1979, No.18, p.106-112, 6 refs., In Russian. Salamatin, A.N., Chistiakov, V.K. DLC G576.A65

Mass transfer, Heat transfer, Thermal drills, Drill-

1918. An analysis of heat exchange in the heating element of thermal ice coring drills during drilling is presented. The problem of temperature field of the ice mass below the working surface of techerating unit is investigated. The relationships among basic parameters of the thermal drilling process are analyzed mathematically. Results of theoretical studies were corroborated experimentally.

Annual and long-term variations in ice distribution in the Atlantic sector of Antarctica. [O mezhgodovof i mnogoletnet izmenchivosti rasprostraneniia l'da v At-

Introduction Technical Vallanticheskom sektore Antarktikh.

Dobromyslov, V.N., et al, Antarktika dokiady komissii, 1979, No 18, p.113-117, 10 refs. In Russian Maslennikov V.V.

DLC G576 A65

Sea ice distribution, Climatic changes, South Atlantic Ocean.

Annual and long-term fluctuations in the position of the ice edge in the Atlantic sector of the Antarctic are considered Satellite data collected in 1921 to 1976 are used. Comparison of these data with information on ice distribution during the first

half of the 20th century indicate a significant decrease in ice cover area in 1971-1976

34-2219 Proceedings.

Symposium on Glacier Beds: the Ice-Rock Interface. Ottawa, Aug. 1978, Journal of glaciology, 1979, 23(89), p.1-445, Includes 26 full papers and a general discussion, brief progress reports on current work; abstracts of papers presented at the symposium but not published in full in this volume; abstracts of papers accepted for the symposium but not presented; a general index; and an index of authors and participants Numerous refs. For individual papers see 34-2220 through 34-2245

Meetings, Glacier beds, Ice solid interface.

34-2220

Processes of glacier erosion on different substrata Boulton, G.S., Journal of glaciology, 1979, 23(89), p. 15-38, In English with French and German summar-13 refs

Glacial erosion, Abrasion, Glacier beds, Basal sliding, Models.

Most theories of glacier movement and subglacial erosion have assumed that glaciers test on rigid bedrock surfaces. While this is probably correct for much of the bed area of most modern glaciers, deformable sediments do occur beneath them and formed a substantial area of the beds of large rice sheets during glacial periods. Observations and theories are presented and reviewed about the processes of glacier crossion of rock and inhithited sediment beds both when they are frozen and unifozen. (Auth. mod.)

34-2221

Theoretical model of glacial abrasion.
Hallet B. Journal of claciology. 1979, 23(89), p. 39-50.
In English with French and German summaries. 17

Glacial erosion, Abrasion, Theories, Models.

Stroutstart Alertal Sheraion

Mathews, W.H., Journal of glaciology, 1979, 23(89), p.51-56, 5 refs.
Glacial erosion, Abrasion, Environment simulation.

34-2223

Spectral power density and shadowing function of a

glacial microrelief at the decimetre scale. Benoist, J.P., Journal of glaciology, 1979, 23(89), p. 57-66. In English with French and German summaries.

Glacier beds. Statistical analysis. Microrelief. 34-2224

Local friction laws for glaciers: a critical review and

new openings. Lliboutry, L., Journal of glaciology, 1979, 23(89), p.67-95, In English with French and German summar-

Glacier beds, Basal sliding, Hydraulics, Glacier fric-

34-2225

Unsolved general glacier sliding problem.
Weertman, J., Journal of glaciology, 1979, 23(89), p.97-115. In English with French and German sum-

maries. Refs. p. 109-111 Glacier flow, Basal sliding, Ice solid interface, Theo-

34-2226

34-2220 Flow of ice, as a Newtonian viscous liquid, around a cylindrical obstacle near the bed of a glacier. Morris. F.M., Journal of glaciolog), 1979, 23(89),

Morris, F.M., Journal of glaciology, 1979, 23(89), p.117-129, In English with French and German sum-21 refs

Glacier flow, Analysis (mathematics).

Mathematical approach to the theory of glacier slid-

Fowler, A.C., Journal of glaciology, 1979, 23(89), p.131-141, In English with French and German summaries. 20 refs

Glacier flow, Basal sliding, Theories, Analysis (mathematics).

34-2228

Simulated glacier sliding over an obstacle. Brepson, R., Journal of glaciology, 1979, 23(89), p.143-156. In English with French and German sum-13 refs. maries.

Measuring instruments, Viscosity, Glacier flow, Basal

Empirical studies of ice sliding.

Budd, W.F., et al, Journal of glaciology, 1979, 23(89), p.157-470, In English with French and German sum-

markes 27 refs.
Keage, P.L., Blundy, N.A.
Glacier flow, Basal sliding, Surface roughness, Shear stress, Velocity measurement.

34-2230

Seismic evidence for discrete glacier motion at the

Weaver, C.S., et al. *Journal of glaciology*, 1979, 23(89), p.171-184. In English with French and German summaries. 14 refs

Malone, S.D.

Glacier flow, Seismic surveys, Icequakes.

34-2231

On the origin of stratified debris in ice cores from the bottom of the Antarctic ice sheet.

Gow, A.J., et al. *Journal of glaciology*, 1979, 23(89). MP 1272, p. 185-192, In English with French and Ger-

man summaries. 11 refs. Epstein, S., Sheehy, W. Ice cores, Drill core analysis, Sedimentation, Stratification. Freeze thaw cycles.

cation, Freeze thaw cycles.
Cores from the bottom 4.83 m of the Antarctic ice sheet at Byrd Station contain abundant stratified debris ranging from silt sized particles to cobbles. The nature and disposition of the debris, together with measurements of the physical properties of the inclosing ice, indicate that this zone of dirt-laden ice originated by "freezing-m" at the base of the ice sheet. The transition from air-rich glaenal ice to rice practically devoid of air coincided precisely with the first appearance of debris in the ice at 4.83 m above the bed. Stable-isotope studies made in conjunction with gas-content measurements also confirm the idea of incorporation of basal ice may well constitute the most diagnostic test for discriminating between debris incorporated in a melti-refreeze process and debris entrapped by purely mechanical means, e.g. shearing. We conclude from our observations on bottom cores from Byrd Station that "freezing-m" of basal debris is the major mechanism by which sediment is incordebris is the major mechanism by which sediment is incor-porated into polar see sheets—(Auth.)

Debris-laden ice at the bottom of the Greenland ice

Herron, S., et al. Journal of glaciology, 1979, 23(89), p.193-207, in English with French and German summaries. Refs. p.205-207. Langway, C.C., Jr. Lee cores, Ice sheets, Bottom sediment, Gas included the core of the core

sions. Freeze thaw cycles.

Discontinuous flow, ice texture, and dirt content in

the basal layers of the Devon Island ice cap. Koerner, R.M., et al, Journal of glaciology, 1979, 23(89), p.209-222, In English with French and German summaries. 24 refs

Fisher, DA

Drill core analysis, Ice sheets, Bottom sediment, Ice structure.

Depolarization of radio waves can distinguish be-

tween floating and grounded ice sheets. Woodruff, A.H.W., et al. Journal of placiology, 1979, 23(89), p.223-232, In English with French and German summaries. 19 refs

Doake, C.S.M

Floating ice, Grounded ice, Radio echo soundings.

Floating ice, Grounded ice, Radio echo soundings. Polar ice is now thought to be marginally birefringent at radio echo-sounding frequencies. An experiment on the polarization behaviour of 60 MHz radio echoes from the bed of both ice shelf and land ice in Antarctica showed a marked difference in the returned polarization. It appears that differences in electrical properties or roughness of the reflecting boundary cannot explain these results. It is suggested that there is a large change in the birefringence of the ice sheet at the hinge zone, caused by the effect of tidal strain on crystal orientation. This would imput a minimum value of the radio-frequency anisotropy in permittivity for the single crystal of 0.52°. Therefore polarization changes could allow floating and grounded ice to be distinguished. (Auth.)

Energy dissipation during subglacial abrasion at Nis-

qually Glacier, Washington, U.S.A. Metcalf, R.C., Journal of glaciology, 1979, 23(89), p.233-246, In English with French and German sum-

maries 35 refs Abrasion, Subglacial drainage, Suspended sediments, Glacial erosion

The state of the said the state of the state

Sediment concentration in melt waters as an indicator of erosion processes beneath an alpine glacier.
Collins. D.N. Journal of glaciology, 1979, 23(89). Collins, D.N., Journal of glaciology, 1979, 23(89) p 247-257, In English With French and German summanes 12 refs

Suspended sediments, Meltwater, Subglacial drainage, Glacial erosion

Pressure-melting effects in bas a ice of temperate glaciers: laboratory studies and field observations under

Cleris: laboratory studies and field observations under Glacler d'Argentière.
Goodman, D.J., et al, Journal of glaciology, 1979, 23(89), p.259-271, in English with French and German summaries. 13 refs.
King, G.C.P., Millar, D.H.M., Robin, G. de Q. Glacier ice, Ice melting, Water pressure, Subglacial observations.

observations.

Observations within cavities at the bed of the glacier

Osterdalsisen, Norway.
Theakstone, W.H., Journal of glaciology, 1979, 23(89), p.273-281, In English with French and German summaries. 28 refs.

Subglacial observations, Glacier beds, Ice creep, Ice deformation.

34-2239

Sequence of glacial deformation, erosion, and deposition at the ice-rock interface during the last glacia-tion: Cranbrook, British Columbia, Canada.

Broster, B.E., et al, Journal of glaciology, 1979, 23(89), p.283-295, In English with French and German summaries. 12 refs. Dreimanis, A., White, J.C.

Glacial geology, Glacial erosion, Glacial deposits, Plastic deformation, Ice solid interface.

34-2240

Giant grooves made by concentrated basal ice

Goldthwait, R.P., Journal of glaciology, 1979, 23(89), p.297-307, In English with French and German summaries. 21 refs.

Glacial geology, Basal sliding, Ice scoring, United States—Ohio—Kelleys Island.

34-2241

Direct measurement of basal water pressures: prog-

ress and problems.

Hodge, S.M., Journal of glaciology, 1979, 23(89), p.309-319, In English with French and German summaries. 12 refs.

Subglacial observations, Water pressure, Measurement. Boreholes.

34-2242

Subglacial regelation water film.

Hallet, B., Journal of glaciology, 1979, 23(89), p.321-334, In English with French and German summaries.

Subglacial observations, Basal sliding, Water films, Regelation.

34.2243

Geometry of former subglacial water channels and cavities.

Walder, J., et al, *Journal of glaciology*, 1979, 23(89), p.335-346, In English with French and German summaries. 31 refs. Hallet, B.

ubglacial observations, Glacier beds, Ice scoring, Glacial erosion.

34-2244

Quantitative determination of the subglacial hy-

drology of two alpine glaciers.
Collins, D.N., Journal of glaciology, 1979, 23(89), p.347-362, In English with French and German sum-30 refs. maries.

Glacial hydrology, Water chemistry, Electrical resistivity.

34-2245

Subglacial constructions and investigations at Bond-

husbreen, Norway.
Wold, B., et al, Journal of glaciotogy, 1979, 23(89), p.363-379, In English with French and German summaries. 8 refs. Östrem, G.

Subglacial observations. Meltwater, Sediment transport, Tunneling (excavation).

34-2246

Scientific conference of geographers from Siberia and the Far East. Geography and practice. Proceed-

ngs. [Materialy].
Nauchnoe soveshchanie geografov Sibini i Dal'nego
Vostoka. Geografiia i praktika, 6th, Oct. 10-12, Irkutsk, 1978, Irkutsk, 1978, 253p., In Russian. For selected papers see 34-2247 through 34-2251. Refs. passim. Medvedkova, E.A., ed.

Environmental protection, Subarctic landscapes, Taiga, Tundra, Forest tundra, Human factors, Min-ing, Construction, Swamps, Land reclamation, Meet-

34-2247

Regional types of mining-affected lands in East Siberia and trends in their restoration. [Regional'nye tipy zemel', narushennykh gornymi rabotami v Vos-tochnol Sibiri i obosnovanie napravlenii ikh rekul'tivatsii,

et al, Nauchnoe soveshchanie geografov Sibiri i Dal'nego Vostoka. Geografia i praktika, 6th, Oct. 10-12, Irkutsk, 1978. Materialy (Scientific conference of geographers from Siberia and the Far East. Geography and practice. Proceedings) edited by E.A. Medvedkova, Irkutsk, 1978, p.98-102. In Russian. 1 ref.

Kalen I I Land reclamation, Taiga, Mountains, Subarctic landscapes, Steppes, Human factors, Mining, Environ-mental protection.

34-2248

Ecologic considerations when making decisions concerning power-fuel supply systems. (Uchet ekologi-cheskikh faktorov pri vybore reshenit dlia ob"ektov

toplivno-energeticheskogo kompleksa<sub>1</sub>, Alekseeva, G.V., et al, Nauchnoe soveshchanie geografov Sibiri i Dal'nego Vostoka. Geografiia i praktika, 6th, Oct. 10-12, Irkutsk, 1978. Materialy UKA, Oth, Oct. 10-12, Irkutsk, 1978. Materialy (Scientific conference of geographers from Siberia and the Far East. Geography and practice. Proceedings) edited by E.A. Medvedkova, Irkutsk, 1978, p. 103-108, In Russian. 2 refs.

Koshelev, A.A., Stedanova, T.A.

Koshelev, A.A., Stepanova, T.A.
Environmental protection, Electric power, Fuels,
Fuel transport, Pipelines, Permafrost beneath structures, Permafrost control.

34-2240

Forecasting changes in West Siberian landscapes due to pipeline construction. [Prognoz izmeneniia prirod-nykh kompleksov severa Zapadnoi Sibiri pod vliianiem

nykn kompieksov severa Zapadnoi Sioiri pod vilianiem linetnogo stroitel'stvai, Moskalenko, N.G., Nauchnoe soveshchanie geografov Sibiri i Dal'nego Vostoka. Geografiia i praktika, 6th, Oct. 10-12, Irkutsk, 1978. Materialy (Scientific conference of geographers from Siberia and the Far East.
Geography and practice. Proceedings) edited by
E.A. Medvedkova, Irkutsk, 1978, p.115-119, In Rus-4 refs. sian.

Landscape types, Taiga, Tundra, Forest tundra, Swamps, Economic development, Pipelines, Perma-frost beneath structures, Environmental protection. 34-2250

Swamp land reclamation in West Siberia. [Osobennosti melioratsii bolotnykh massivov Zapadnoi Sibiri], Sazonov, A.G., Nauchnoe soveshchanie geografov Sibiri i Dal'nego Vostoka. Geografia i praktika, 6th, Oct. 10-12, Irkutsk, 1978. Materialy (Scientific con-ference of geographers from Siberia and the Far East. Geography and practice. Proceedings) edited by E.A. Medvedkova, Irkutsk, 1978, p.119-122, In Rus-

Swamps, Permafrost distribution, Land reclamation. 34-2251

Agricultural development of the Ob'-Irtysh flood plain meadows in northern Tyumen'. [Sel'skok-hoziaIstvennoe ispol'zovanie Ob'-Irtyshskol lugovol polmy na Tiumenskom Severe<sub>1</sub>, Aseeva, A.L. Nauchnoe soveshchanie geografov Sibiri

i Dal'nego Vostoka. Geografiia i praktika, 6th, Oct. 10-12, Irkutsk, 1978. Materialy (Scientific confer-Geographers from Siberia and the Far East.
Geography and practice. Proceedings) edited by
E.A. Medvedkova, Irkutsk, 1978, p.123-127, In Russian.

Cryogenic soils. Meadow soils. Vegetation.

34-2252

Soils in pine forests of Karelia. Pochvy sosnovykh lesov Karelii, Piavchenko, N.I., ed. Petrozavodsk, 1978, 141p., In

Russian. For selected papers see 34-2253 through 34-2258

Morozova, R.M., ed. Cryogenic soils, Moraines, Forest soils, Podsol, Soil formation, Soil chemistry, Soil freezing, Soil water migration, Litter, Biomass.

34-2253

Soil formation on sandy deposits in Karelia, Pochvoobrazovanie na peschanykh otlozhenijakh Karelij, Morozova, R.M., Pochvy sosnovykh lesov Karelij (Soils in pine forests of Karelia) edited by N.I. P'iavchenko and R.M. Morozova, Petrozavodsk, 1978, p.4-

43, In Russian.

Moraines, Soil formation, Cryogenic soils, Forest soils, Podsol, Soil profiles, Soil chemistry, Vegetation factors, USSR—Karelia.

34-2254

Hydrothermal regime of autonomous sandy soils. (Gidrotermicheskil rezhim avtonomnykh peschanykh

pochv<sub>1</sub>, Erukov, G.V., Pochvy sosnovykh lesov Karelii (Soils in pine forests of Karelia) edited by N.I. Piavchenko and R.M. Morozova, Petrozavodsk, 1978, p.44-58, In Russian

Soil freezing, Soil water migration, Soil temperature, Cryogenic structures, Forest soils, Podsol, Mosses, Lichens, USSR-Kola Peninsula.

Chemical composition of natural waters and migration of chemical substances in pine forest biogeocenoses, rKhimicheskii sostav prirodnykh vod i ogeocenoses, (Khimicneskii sostav prirodnykn vod i migratsiia veshchestv v sosnovykh biogeotsenozakhj, Strelkova, A.A., Pochvy sosnovykh lesov Karelii (Soils in pine forests of Karelia) edited by N.I. Piavchenko and R.M. Morozova, Petrozavodsk, 1978, p.59-67, In

Forest soils, Litter, Podsol, Soil water migration, Water chemistry, Soil composition, Vegetation factors.

34-2256

Iron and organic matter migration in sandy podsols. O migratsii zheleza i organicheskogo veshchestva v

peschanykh podzolistykh pochvakhj, Lazareva, I.P., Pochvy sosnovykh lesov Karelii (Soils in pine forests of Karelia) edited by N.I. Piavchenko and R.M. Morozova, Petrozavodsk, 1978, p.67-71, In

Forest soils, Litter, Cryogenic soils, Sands, Soil chemistry, USSR-Karelia.

Seasonal variations in chemistry of sandy podsols. [Sezonnye izmeneniia khimicheskikh svolstv podzolis-

tykh peschanykh pochvj. Kulikova, V.K., Pochvy sosnovykh lesov Karelii (Soils in pine forests of Karelia) edited by N.I. Piavchenko and R.M. Morozova, Petrozavodsk, 1978, p.71-84, In

Cryogenic soils, Podsol, Soil chemistry.

34-2258

Biological cycle of substances in cowberry and lichen pine forests. (Biologicheskii krugovorot veshchestv v

Morozova, R.M., Pochyy sosnovykh lesov Karelii (Soils in pine forests of Karelia) edited by N.I. Piavchenko and R.M. Morozova, Petrozavodsk, 1978, .85-112, In Russian.

Forest soils, Cryogenic soils, Soil chemistry, Vegetation, Biomass, Litter, Chemical composition.

Proceedings.

Conference on Scientific Research in the National Parks, 1st, New Orleans, Nov 12, 1976, Transac-tions and proceedings series National Park Service, No.5, U.S. Department of the Interior, 1979, 1325p. (2 vols.), Refs. passim. For selected papers see 34-534 and 34-2260 through 34-2266.

Linn, R.M., ed.

Alpine tundra, Revegetation, Plant ecology, Glacial geology, Glacier flow, Ecosystems, Research projects.

Ecology of alpine timberline in Olympic National

Fonda, R.W., Conference on Scientific Research in the National Parks, 1st, New Orleans, Nov. 9-12, 1976. Proceedings. Edited by R.M. Linn, U.S. Department of the Interior, 1979, p. 209-212, 7 refs. Plant ecology, Forest lines, Vegetation patterns, Environments, Climatic factors, Plant physiology, Soil

34-2261

Primary versus secondary succession at Glacier Bay National Monument, southeastern Alaska. Lawrence, D.B., Conference on Scientific Research in

the National Parks, 1st, New Orleans, Nov. 9-12, 1976. Proceedings. Edited by R.M. Linn, U.S. Department of the Interior, 1979, p.213-224, 39 refs. Forest ecosystems, Plant ecology, Tundra, Glacier os-

34-2262

Problems of revegetation of alpine tundra.

Stevens, D.R., Conference on Scientific Research in the National Parks, 1st, New Orleans, Nov. 9-12, 1976. Proceedings. Edited by R.M. Linn, U.S. Department of the Interior, 1979, p.241-245, 21 refs. Alpine tundra, Revegetation, Plant ecology, Ecosystems, Temperature factors, Soil water.

Ecology of elk on alpine tundra in Rocky Mountain

National Park.
Stevens, D.R., Conference on Scientific Research in the National Parks, 1st, New Orleans, Nov. 9-12, 1976. Proceedings. Edited by R.M. Linn, U.S. Department of the Interior, 1979, p.421-426, 21 refs. Alpine tundra, Environmental impact, Animals, Ecology.

34-2264

Glacial geology of recently deglaciated bedrock areas. Hallet, B., Conference on Scientific Research in the National Parks, 1st, New Orleans, Nov. 9-12, 1976. Proceedings. Edited by R.M. Linn, U.S. Department of the Interior, 1979, p.795-801, 16 refs. Glacial geology, Cirque glaciers, Glacier flow, Glacier beds, Ice solld interface, Chemistry, Topographic fea-

34-1265

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Pogers, E.T., et al, Mount Pleasant, Pennsylvania, Permali, Inc., 1979, 77p. ADA-077, 160. Ross, J.A., Snyder, K.M. Towers, Ice loads, Wind pressure, Impact strength.

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34-2271

Dependence of lake ice-covers on weather, snow and water. ¡Sjöisars beroende av väder och vind, snö och

Fremling, S., Sweden. Meteorologiska och hy-drologiska institutet. SMHI rapporter, 1977, No.RHO 12. 13 p. In Swedish. 25 refs. Lake ice, Ice cover, Meteorological factors.

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Plant reproduction in a Irigh Arctic environment. Bell, K. L., et al, Arctic and alpine research, Feb. 1980, 12(1), p.1-10, 26 refs. Bliss, L.C.

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Snow hydrology, Snow composition, Minerals, Nutrient cycle. Watersheds.

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Palsas and other permafrost features in the lower Rock Creek Valley, west-central Alberta.

Brown, G., Arctic and alpine research, Feb. 1980
12(1), p.31-40, 29 refs.

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Hanson, A., Arctic and alpine research, Feb. 1980, 12(1), p.101-104, 6 refs Sea ice. Pressure ridges.

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Icebreakers, Air cushion vehicles, Cold weather performance, River ice, Low temperature tests.

Air cushion vehicle (ACV) icebreaker test and evaluation program. Volume 2. Operational and engineering analysis.

Buck, J., et al, U.S. Coast Guard Research and Development Center. Report, Aug. 1978, CGR/DC-13-78, 156p. ADA-077 449. Dennis, B., Anthony, J., Neal, E.

Air cushion vehicles, Icebreakers, Cold weather performance, Low temperature tests, River ice.

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Statistical analysis of terrain and water (ice) backgrounds in a winter scene from northern Michigan. LaRocca, A.J., Environmental Research Institute of gan. Infrared and Optics Division. F 979, ERIM-139900-2-F, 302p. ADA-07 Michigan. Statistica! analysis, Terrain identification, Infrared photography, Ice cover.

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Degradation of oil by yeast and filamentous fungi in Arctic environments.

Arctic environments.

Crow, S.A., et al, Atlanta, Georgia State University, 1979, 13p. ADA-078 892.

Ahearn, D.G.

Fungi, Oil spills, Degradation, Polar regions.

34-2282

Battery for Arctic radio repeater systems.

Armstrong, W.A., et al., Canada. Delence Research Establishment, Ottawa. DREO technical note, Nov 1979, DREO-TN-79-27, 26p., ADA-079 585, In English with French summary

Barnes, W.D. Electric power, Radio communication, Cold weather operation, Electric equipment.

34-2283

Suppression of river ice by thermal effluents.

Ashton, G.D., U.S. Army Cold Regions Research and Engineering Laboratory, Dec. 1979, CR 79-30, 23p., ADA-080 654, 5 refs. River ice to control. Thermal diffusion, Thornal

pollution, Heat transfer.

pollution, Heat transfer.

The ice suppression resulting from discharge of warm water into rivers during winter is analyzed with emphasis on two different cases. In Part I, the case of a thermal effluent fully mixed across the flow section is analyzed to include the effects of unsteadness in the effluent temperature and the meteorological variations. The location of the ice edge is determined either. by O C water temperature criterion or an equilibrium ice melting analysis. The choice of the applicable criterion emerges naturally from the analysis, even though the location of the ice edge may be considerably different when a steady-state analysis is done. In Part 2, the case of a side discharge of heated effluent is analyzed, also in an unsteady manner, and the effects of transverse dispersion are included in the analysis. Comparisons are made in Parts 1 and 2 to limited field data that are available.

Mass water balance during spray irrigation with wastewater at Deer Creek Lake land treatment site. Abele, G., et al. U.S. Army Cold Regions Research

and Engineering Laboratory, Aug. 1979, SR 79-29, 43p., ADA-080 649, 3 rets.

McKim, H.I., Brockett, B.E. Water treatment, Waste treatment, Water balance, Sewage treatment, Irrigation.

Sewage treatment, Irrigation.

The water budget for a 3-6-ha test area was calculated during and two days after a 2-7-cm requirement to 993 0000 f) application of wastewater. By computing the water remaining in the soil from soil sample water content data, calculating the amount lost to evaportranspiration and measuring the undertrain flow rate, it was possible to calculate the water budget to within 95% of the actual amount applied. The accuracy in computing the soil water content is critical. In this case, a P. variation of error in the volumetric water content is equivalent to nearly one third of the total water applied.

34-2285

Proceedings of the Seminar III on Dry Valley Drilling Project, 1978.

National Institute of Polar Research Memoirs, Sep. 1979. Special issue No. L3, 245p. Refs. For selected papers see E-22899, E-22900, E-22902 through 22922 and L-22901, or 34-2286 through 34-2289

Research projects, Glacial geology, Drill core analsis, Ice composition, Snow composition, Permafrost structure.

structure.
The third seminar on the multi-national (United States-Japan-New Zealand) Dry Valley Drilling Project (DVDP) was held in Jokyo from Jone 5 to 10, 1978. The participants included twenty representatives from the U.S. five from New Zealand, two Iron Australia, twenty from Epan, and an audience of about twenty people. The seminar iroxided the opportunity to discuss scientific topics, problems oncerning cooperative work, and luture programs. Fifty papers were presented at eight sessions. The present volume contains 26 papers and abstracts

34-2286

View on the formation of saline waters in the Dry Valleys.

Torn, T., et al. Tokyo National Institute of Polar Research Memoirs. Sep. 1979. Special issue No.13. Proceedings of the Seminar III on Dry Valley Drilling Project. 1978, edited by T. Nagata, p.22-33, 13 refs. For another version of this paper see 10F-20374, or 32-3275.

Yamagata, N., Ossaka, J., Murata, S.
Water chemistry, Salt water, Drill core analysis, Ice composition, Snow composition.

A previous report by Torn et al (1977, 9E-18530) on the salt balance in the Don Juan basin pointed out the presence of calcium excess when the total salt deposits in the basin are assumed to have resulted simply from the evaporation of sea water. Concerning the evolutionary processes of saline waters in the Dry Vaileys, sources of the salts other than trapped sea water were not necessarily excluded, and sea spray, non exchange and rock weathering theories have been suggested by many investigators. This paper presents the results obtained by further examination of the processes of saline water formation, on the basis of the analytical results of the DVDP cores from the Wright Valley, the information on the chemical characteristics of the water systems in the Dry Valleys, and a recent recommassance in the Labyrinth and the Pearse Valley. It is more likely that the chemical composition of waters in these saline lakes is mainly due to the atmospheric salt rather than the modification of trapped sea salt. (Auth.)

34-2287

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Upper crustal structure under McMurdo Station, Antarctica, deduced from blasts during nuclear power

Flant removal.

Kaminuma, K., Tokyo National Institute of Polar Research Memoris, Sep 1979, Special issue No. 13.

Proceedings of the Seminar III on Dry Valley Drilling Project, 1978, edited by T. Nagata, p.34-41, 9 refs.

—McMurdo Station.

The upper crustal structures beneath McMurdo Station are studied, using reflected waves of blasts for dismantling the nuclear power plant in Nov. and Dec. of 1975. A three-seismograph network was installed near the Thiel Earth Sciences laboratory, and reflected waves of four blasts ont of many were successfully observed. As the distances between the blast points and seismographs were only 300 m, refracted waves were not recorded. Though the velocities of seismi, wave are not determined the arrival times of clear phases of teflected waves in approv. 0.7 sec., and thickness of the first layer is 1.2 km if the P wave velocity of the layer is assured to be 4.1 km. S. The travel time of all the well-dentified latest phase is 3.95 sec. This study suggests the presence of five layers in the upper crust. (Auth.)

Chemistry and clay mineralogy of cores 8, 9, 10, New

Harbor, Antarctica.
Ugolini, F.C., et al, Tokyo. National Institute of Polar Research. Memoirs, Sep. 1979, Special issue No.13, Proceedings of the Seminar III on Dry Valley Drilling Project, 1978, edited by T. Nagata, p.84-102, Polar 1999, Refs. p.99-102.
Deutsch, W., Harris, H.J.H.
Permafrost structure, Electrical resistivity, Ion den-

sity (concentration), Soil chemistry, Clay minerals. Electrical conductivity and ionic composition of extracted solutions from ice-cemented permafrost from cores 8, 9, and 10 show that most of the sediments were deposited in a marine environment and that aggradation of permafrost during exposure of the sediments to subserial conditions caused ionic concentration. Influx of brines capable of moving in permafrost is also suggested. Regions of low conductivity are interpreted either as freshwater episodes or textural discontinuities. Clay mineralogy can be separated into three major assemblages corresponding to the three major lithological units. The clay minerals show little weathering and complex irregular interstratification of mica-vermiculite-montmorillonite and chlorite. (Auth.)

DVDP at the Florida State University: core storage and sample distribution.

and sample distribution.
Cassidy, D.S., Tokyo. National Institute of Polar Research. Memoirs. Sep. 1979. Special issue No. 13, Proceedings of the Seminar III on Dry Valley Drilling Project, 1978, edited by T. Nagata, p.240-245, 13 refs. Cores, Dry Valley Drilling Project.
Cores recovered by the Japan-New Zealand-United States Dry Valley Drilling Project (DVDP) in Antarctica are stored at the Florida State University's Antarctic Research Facility. More than 1100 m of DVDP drill core are stored at -23C, from which 3471 samples have been distributed to authorized investigators worldwide. All cores remain in excellent condition, and further research interest in them is invited. (Auth.)

Microbiological studies of the central antarctic ice sheet. Mikrobiologicheskie issledovanija lednikovol tolshchi tsentral'nol Antarktiki,

toisnent tsentral not Antarktikij, Abyzov, S.S., et al, Akademiia nauk SSSR. Izvestiia. Seriia biologicheskaia, 1979, No.6, p.828-836, In Russian with English summary. 26 refs. Bobin, N.E., Kudriashov, B.B.

Microbiology, Cryobiology, Algae, Fungi, Ice sheets, Glacier ice, Antarctica—Vostok Station.

Glacier ice, Antarctica—Vostok Station.

The ice sheet of Antarctic provides a unique opportunity to study the conservation of microorganisms under strong cooling for tens or, possibly, hundreds of years. Microbiological investigations of thickness of the glacier up to 312 meters have been carried out for the first time in Central Antarctic. It was established that the microorganism concentration in deep layers of the glacier was extremely small with fortuitous distribution along the glacier profile. The age of studied horizons with embedded viable microorganisms is 10-13 thousand years. Among the microorganisms found, the dominant ones are classified as bacteria. Microscopic fungi and yeasts were found as well. (Auth.) (Auth)

34-2291

Regionalization of Poland's coast in terms of ice ridges piled on beaches. [Rejonizacja polskiej strefy przybrzeżnej pod wzgledem powstawania spietrzeń

lodowych<sub>1</sub>, Zakrzewski, W., *Czasopismo geograficzne*, 1978, 49(1), p.3-16, In Polish with English summary. 18

Shores, Ice override, Drift, Floating ice, Baltic Sea.

Safe working conditions on fast ice. [Bezopasnost' rabot na ledovom pripae<sub>1</sub>, Chuchukin, A., *Morskoi flot*, 1979, No.4, p.26-27, In

Ice wharves, Cargo, Safety, Logistics.

Precautions to be taken before and during unloading of cargo on an ice shelf are discussed. Two broad concerns face planners: avoidance of breakup of the ice itself, and preventing the ship from being entrapped.

34-2293 Recent relief-forming processes in Siberia. (Protsessy sovremennogo rel'efoobrazovaniia v Sibiri), Ivanovskii, L.N., ed, Irkutsk, 1978, 139p., In Russian. For selected papers see 34-2294 through 34-2298.

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Geocryology, Soil freezing, Frost penetration, Frost heave, Soil water migration, Pingos, Ice lenses, Slope processes, Alpine landscapes, Solifluction, Avalanches, Rock streams, Permafrost distribution, Snow cover distribution, Forest lines, USSR—Trans-

Recent exogenic relief-forming processes in Transbaikal steppes. (Izuchenie sovremennykh ekzogennykh protsessov rel'efoobrazovaniia v stepnom Zabalkal'e<sub>1</sub>, Titova, Z.A., et al, Protsessy sovremennogo rel'efoobrazovaniia v Sibiri (Recent relief-forming processes in Siberia) edited by L.N. Ivanovskii, Irkutsk, 1978, p.3-21, In Russian. 5 refs. 21, In Russian. 5 refs.
Bazhenova, O.I.
Steppes, Soil freezing, Frost penetration, Snow cover effect, Snow surveys, Charts.

34-2295

Bald peaks in the Lake Baykal area and northern Transbalkal, their boundaries and distribution. [Gol'tsy Pribalkal'ia i severnogo Zabalkal'ia, ikh gra-

ritsy i rasprostranenie; Vyrkin, V.B., Protsessy sovremennogo rel'efoo-brazovaniia v Sibiri (Recent relief-forming processes in Siberia) edited by L.N. Ivanovskii, Irkutsk, 1978, p.63-68, In Russian. 12 refs.

Alpine landscapes, Snow cover distribution, Glaciation, Forest lines, Rock streams, Bald peaks.

Slope denudation in the bald peak zone of western Sayan. (Denudatsiia sklonov v gol'tsovom poiase

Sayan. (Denudatsiia sklonov v gol'tsovom poiase Zapadnogo Saiana), Rashba, I.N., Protsessy sovremennogo rel'efoobrazovaniia v Sibiri (Recent relief-forming processes in Siberia) edited by L.N. Ivanovskii, Irkutsk, 1978, p.69-87. In Russian. 21 refs.

Aipine landscapes, Slope processes, Rock streams, Permafrost distribution, Frost weathering, Talus, Creep, Solifluction, Bald peaks.

Rock streams and baid peak zones of the Lake Baykal area and northern Trausbalkal. [Kurumy gol'tsov Pribaĭkal'ia i severnogo Zabaĭkal'ia<sub>1</sub>,

Vyrkin, V.B., Protsessy sovremennogo rel'efoo-brazovaniia v Sibiri (Recent relief-forming processes in Siberia) edited by L.N. Ivanovskii, likutsk, 1978, p.88-108, In Russian. 35 refs.

Alpine landscapes, Rock streams, Slope processes, Solifluction.

34-2298

Frost heave in Transbaikal steppes. [Puchenic grunta

Frost heave in Transbalkal steppes. [Puchenic grunta v stepnom Zabalkal'e], Bazhenova, O.I., Protsessy sovremennogo rel'efoobrazovanila v Sibiri (Recent relief-forming processes in Siberia) edited by 5 %. Ivanovskii, Irkutsk, 1978, p.109-126, In Russian. 27 refs. Geocryology, Soil freezing, Frost penetration, Frost heave, Soil water migration, Pingos, Ground ice, Ice lenses, Thermokarst, USSR—Transbalkal.

International conference on meteorology of the Carpathian Mountains. Proceedings.
Mezhdunarodnaia konferentsiia po meteorologii Kar-

pat, 7th, Tatranska Lomnica, Sep. 21-25, 1975, Bratis-lava, VEDA, 1979, 415p., In Russian, French and German. For selected papers see 34-2300 through 34-2305. Refs. passim.

Otruba, J., ed. Hoarfrost, Measuring instruments, Synoptic meteorology, Snowfall, Precipitation gages, Snow cover distribution, Snow depth, Snow water equivalent, Icing, Meteorological data, Carpathian Moun-

Hydrologic effectiveness of continuous snow cover in Moravian-Silesian Beskids. (Gidrologicheskaia effektivnosť sploshnogo snezhnogo pokrova v Morav-

effektivnost' sploshnogo snezhnogo pokrova v Morav-sko-Silezskikh Beskidakh<sub>1</sub>, Lednický, V., et al, Mezhdunarodnaia konferentsiia po meteorologii Karpat, 7th, Tatranska Lomnica, Sep. 21-25, 1975 (International conference on meteorology of Carpathian Mountains, Sep. 21-25, 1975, Proceed-ings) edited by J. Otruba, Bratislava, VEDA, 1979, p.261-268, In Russian with French and German sum-maries. 7 refs. Konicár, J.

Snow cover distribution, Snow water equivalent, Czechoslovakia-Beskids

34-2301 Relationship between annual snow water content maxima and elevation in medium high mountains in the German Democratic Republic. [Die Sechöhenabhängigkeit der jährlichen Höchstwerte des Wassergehalts der Schneedecke im Mittelgebirge der DDR]. Zerche, M., Mezhdunarodnaia konferentsiia po meteorologii Karpat, 7th, Tatranska Lomnica, Sep. 21-25, 1975 (International conference on meteorology of Carpathian Mountains, Sep. 21-25, 1975, Proceedings) edited by J. Otruba, Bratislava, VEDA, 1979, p.269-273, In German with Russian and French summaries.

Snow cover distribution, Snow depth, Snow water

Snow cover distribution, Snow depth, Snow water

34-2302

Improving snow gage accuracy. [Verbesserung der

Schneeniederschlagsmessung, Pleiss, H., Mezhdunarodnaia konferentsiia po meteorologii Karpat, 7th, Tatranska Lomnica, Sep. 21 25, 1975 (International conference on meteorology of Carpathian Mountains, Sep. 21-25, 1975, Proceedings) edited by J. Otruba, Bratislava, VEDA, 1979, p 275-283, In German with Russian and French summaries. 5 refs.

Precipitation gages, Snowfall.

Seasonal variations in the relationship between the number of days with snow cover and elevation in high mountains, (Der Jahresgang der Höhenabhängigkeit der Zahl der Tage mit Schneedecke im Hochgebirge), Steinhauser, F., Mezhdunarodnaia konferentsiia po meteorologii Karpat, 7th, Tatranska Lomnica, Sep. 21-25, 1975 (International conference on meteorology of Carpathian Mountains, Sep. 21-25, 1975, Proceedings) edited by J. Otruba, Bratislava, VEDA, 1979, p.313-322, In German with Russian summary. p.313-322, in German with Russian summary. Mountains, Snow cover, Meteorological data.

Climatic-synoptic characteristics of days with snowfall and snow cover in Eastern Serbia. ¡Klimato-sinop-ticheskie kharakteristiki dneI so snegom i snezhnym pokrovom v Vostochnoi Serbiij, Rankovič, S., et al. Mezhdunarodnaja konferentsija po

meteorologii Karpat, 7th, Tatranska Lomnica, Sep. 21-25, 1975 (International conference or meteorology of Carpathian Mountains, Sep. 21-25, 1975, Proceedings) edited by J. Otruba, Bratislava, VEDA, 1979, p.335-345, In Russian with French summary. 5 refs. p.335-345, In Russian with French summary. Sokolovič-Ilič, G. Synoptic meteorology, Snow cover, Snowfall.

34-2305

Hoarfrost-ice deposits in West Carpathian Uplands. ¡Nekotorye kharakteristiki gololedno-izmorozevykh otlozhenil v vysokogornykh oblastiakh Zapadnykh

Ostrozienii v vysokogornykii obiastiakii Zapadilykii Karpati, Ostrožiik, M., Mezhdunarodnaia konferentsiia po meteorologii Karpat, 7th, Tatranska Lomnica, Sep. 21-25, 1975 (International conference on meteorology of Carpathian Mountains, Sep. 21-25, 1975, Proceed-ings) edited by J. Otruba, Bratislava, VEDA, 1979, p.363-371, In Russian with French and German sum-

maries. 8 refs.

Hoarfrost, Icing, Measuring instruments, Meteorological factors, Czechoslovakia—Tatra Mountains.

Biogeocenologic studies in planted meadows of East-European tundra. Biogeotsenologicheskie is-sledovaniia na seianykh lugakh v vostochnoevropeiskoi tundrej, Archegova, I.B., ed. Leningrad, Nauka, 1979, 190p.

In Russian with English table of contents enclosed. Refs. p.179-189. Kotelina, N.S., ed. Tundra, Meadow soils, Cryogenic soils, Vegetation, Soil chemistry, Nutrient cycle.

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Control of blasting effects on rocks and grounds. [Upravlenie delstviem vzryva v gruntakh i gornykh

porodakh<sub>i</sub>, Vovk, A.A., ed, Kiev, Naukova dumka, 1979, 224p., In Russian. For selected papers see 34-2308 through 34-2311. Refs. passim. Luchko, l.A., ed.

Mining, Artificial freezing, Blasting, Land reclama-tion, Seasonal freeze thaw, Drainage, Frozen ground, Channels (waterways), Cold weather construction.

Reversible and irreversible changes in strength of grounds compacted by blasting. (Obratimye i neo-bratimye izmenenna prochnostnykh pokazatelei uplotmaemykh vzryvom gruntovi,

naemykh vzryvom gruntov). Chernyl, G. I., Upravlenie deistviem vzryva v gruntakh i gornykh porodakh (Control of blasting effects on tocks and grounds) edited by A.A. Vovk and I.A. Luchko, Kiev, Naukova dumka, 1979, p.41-52, In Rus-

Soil compaction, Blasting, Slope stability.

Studying physical and mechanical properties of seasonally frozen grounds subject to blasting, for the construction of land reclamation objects. [Issledovanie fiziko-mekhanicheskikh svotsty sezonnomerztykh gruntov pri stroitel'stve gidromehorativnykh ob"ektov

vzryvom). Vorob'ev, V.D., et al, Upravlenie delstviem vzryva v grurtakh i gornykh porodakh (Control of blasting el-fe: is on rocks and grounds) edited by A.A. Vovk and I.A. Luchko, Kiev, Naukova dumka, 1979, p.132-138, In Russian. 2 refs. Land reclamation, Swamps, Drainage, Channels (wa-

terways), Blasting, Peat.

Effectiveness of slotted blasting charges used in building channels in seasonally frozen grounds, Effektivnosť primeneniia shchelevýkh zariadov pri stroi-teľstve kanalov v sezonnomerzlykh gruntakh,

Frash, G.B., et al, Upravlenie delstviem vztyva v gruntakh i gornykh porodakh (Control of blasting effects on rocks and grounds) edited by A.A. Vovk and I.A. Luchko, Kiev, Naukova dumka, 1979, p.138-142. In 5 refs Russian

Land reclamation, Drainage, Channels (waterways), Cold weather construction, Frozen ground, Blasting.

Stress waves in artificially frozen water-saturated ground, studied after fuse detonation on test-benches and in mining shafts, dssledovanie volu napriazhenit v zamorozhennykh vodonasyshchennykh gruntakh ot vzryva shnurovykh zariadov na połupromyshlennom stende i v stvolakhj. Oksanich, I.F., et al. Upraylenie delstyjem vzryva v

gruntakh i gornykh porodakh (Control of blasting efgruntakh i gornykh porodakh (Control of blasting el-fects on rocks and grounds) edited by A.A. Vovk and I.A. Luchko, Kiev, Naukova dumka, 1979, p.142-148, In Russian. 2 refs. Mironov, P.S., Chmykhalov, V.S., Fesenko, O.G. Mining, Blasting, Frozen ground, Artificial freezing,

Secrets of natural ice in Kazakhstan, (Tainy prirod-

Tokmagambetov, G.A., Alma-Ata, Nauka, 1978, 151p., In Russian with English table of contents en-

closed. 11 refs. Glaciology, Geocryology, Glacial hydrology, Snowfall, Avalanches, Mudflows, Permafrost distribution, USSR-Kazakhstan.

Problems raised by frost action. Fundamental and applied researches (rocks and artificial building materials). Vol.2: scientific reports. [Les problèmes posés par la gélifraction. Recherches fondamentales et appliquées (roches et materiaux artificiels de construction). Vol.2: rapports scientifiques<sub>1</sub>,

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als, Saturation, Porosity, Low temperature tests.

Structural steels usable at low temperature. Les aciers de construction métallique utilisables aux basses

températures<sub>1</sub>, Actes et documents, 1979, No.6, p.7-17, in French. Low temperature tests, Steels, Fracturing, Elastic properties, Temperature effects, Construction materi-

Frost shattering observed on cracks at the surface of filman Glucier, Ellesmere Island, (Observations sur la genfraction par fissures à la surface du glacier Gil-man (He d'Ellesmere). Brochu, M., Fondation française d'etudes nordiques Actes et documents, 1979, No.6, p.55-59, In French

Frost shattering, Ice cracks, Glacier surfaces.

Application of factor analysis to the study of natterned ground in polar environments. (Essai d'application de l'analyse factorielle des correspondances à

tion de l'analyse factorielle des correspondances à l'étude des sois structurés en imilieu polairej. Brossard, F., Fondation française d'études nordiques Actes et documents, 1979, No.6, p.61-71, In French with English summary. 2 refs. Patterned ground, Frost action, Slope orientation, Polar regions, Topographic features, Vegetation fac-

tors, Classifications.

Some observations about rock weathering by frost upon the wall carvings.

Fukuda, M., Fondation française d'etudes nordiques. Actes et documents, 1979, No. 6., 73-79, In English with French summary. 8 refs.

Frost weathering, Rock properties, Freeze thaw tests, Frost action, Porosity, Moisture, Physical properties, Freezen rock.

Frozen rocks.

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Roads, Cold weather construction, Canada-Yukon Territory.

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The performance of surface impedance and magnetic induction electromagnetic subsurface exploration techniques was studied seasonally at various sites in Alaska where termafrost and massive ground ice occurred. The methods used have greatest sensitivity within about 20 m of the surface index is, therefore, most applicable for shallow subsurface investigations. The selection of study sites was based on anticipated contrasts it electrical resistivity, between ground ice and adjacent earth materials. A magnetic induction instrument, using a separation of 3.66-m between the transmitter and receiver anticinas, in general was able to detect near-surface zones of massive ice and to provide data regarding permafrost distribution in both the Fairbanks and Prudhoe Bay areas.

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Waste disposal, Water treatment, Irrigation, Soil

The objective of this study was to compare different strategies of using 15N as a tracer to describe the fate of wastewater N in land application of wastewater. Four soil columns were packed with Windsor sandy loam soil and covered with forage grass. The columns were treated with 7.5 cm of either tapwater or wastewater according to four experimental strategies. ter or wastewater according to four experimental strategies. The strategies varied the treatment given the soil prior to application of the 15N label, the schedule and amounts of the applied 15N label, and the type of water used for subsequent column leaching. Soil solution at depth and leachate were analyzed weekly for concentration and 15N content of intrate and ammonium. Plant samples were obtained periodically throughout the experiment and, together with soil samples collected at the end of the experiment, analyzed for total nitrogen content and 15N/14N ratios.

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Waste disposal, Sewage disposal, Soil stabilization. The authors have conducted a two-year revegetation study to assess the ability of sewage sludge applications with or without supplemental fertilizer to promote plant growth and stabilize sloping soils. The study site was a west-facing, 16 deg slope at CRREL in Hanover, New Hampshire. Eight revegetation treatments and one control were replicated three times. Treatments involved applications of dewatered, anaerobically digested sewage sludge at two rates (20 or 40 tons/acre). The sludge was applied alone or in combination with commercial fertilizers which supplied nitrogen, phosphorus and potassium or all three nutrients. The seed mixture in the treatments contained four grasses and one legume. The effects of the various treatments were determined through soil loss yields, visual grass ratings and plant yields. ratings and plant yields.

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Measuring instruments, Ice detection, Aircraft icing, Gamma irradiation.

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Windows, Cold weather performance.

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Statistical analysis, Icc formation, Pressure ridges, Remote sensing.

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Sea ice, Ice acoustics, Ice bottom surface, Ice cover thickness, Computer applications.

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cle size distribution. Information pertaining to acrosols and to microparticles, preserved in snow and ice on the high plateau of Antarctica, is assembled and interpreted with a diffusive transport model. The boundary conditions for the problem involve the existence of a two-mode microparticle size distribution function. The smaller (Arthen) mode likely consists of connected products from nucleation of trace gases, the particles are less than 2.3 days old and are produced locally over the ice caps at a production rate of 4x10 exp 21/g/cu/cm/s. The Arthen particles are present in concentrations of 100-1,000/cu/cm throughout the troposphere, except in the lowest few hundred meters within the present in concentrations or 100-1,000/cd cm intrognost the turbulent boundary layer, where they are depleted. The Aitken particles are probably composed of converted sulfates and hydrocarbons. Large particles approx 0.4 microm in radius are also found in Antarctica, in concentrations of 0.5 feet cent. these particles dominate the aerosol mass. The large particles are estimated to have come from (1) unidentified sulfate course, survivoles purposition to provide the particles of the provided the particles are estimated to have come from (1) unidentified sulfate of the provided the provided the particles are estimated to have come from (1) unidentified sulfate of the provided the provided the provided the particles are estimated to have come from (1) unidentified sulfate the provided the p cies are estimated to have come from (1) unicentified surface sources, (2) oceanic sources surrounding the continent, (3) arid regions in the southern hemisphere, (4) extraterrestrial sources, and (5) oases on the continent—in that order of importance. Furbulent diffusion seems to be the primary particle transport mechanism. Particle removal mechanisms are discussed.

XV 859; the Falkland Island craft.

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Air cushion vehicles, Falkland Islands.

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Permafrost beneath structures, Soil composition

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Rock fills, Cold weather construction, Buildings, Permafrost beneath structures.

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Frozen ground physics, Artificial thawing, Ground thawing. Cryonenic structures Deformation, Soil

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Construction materials, Loads (forces), Strength, Tensile properties, Temperature effects, Aluminum, Shock waves, Impact strength.

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34-2384

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34-2385

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Glacier flow, Glacial hydrology, Ice sheets, Glacial geology.

34.2386

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structure, Models.

34.2389

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34-2390

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34-2394

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Chemical ice prevention, Salting, Corrosion, Environ-

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Frost penetration, Roads, Subgrade soils, Soil water,

34-2396

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Roads, Bearing strength, Bearing tests, Frost resist-

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Oil spills, Coastal topographic features, Shore erosion, Sediment transport, Ground ice, Permafrost, Flooding.

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Technical report. Dec. 1975, No.17, 113p., 19 refs. Garrett, J.F

Ocean currents, Wind velocity, Wind direction, Oil spills, Storms.

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Snowfall, Density (number/volume), Airplanes,

34-2401

Mechanism of winter blooming of microalgae in Peter

Nectains with the tribulance of the Great Bay (Sea of Japan).

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Algae, Microbiology, USSR-Peter the Great Bay.

34-2402

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Gindoian, A.G., ed, Moscow. Tsentral'ny'i nauchno-issledovatel'skii i proektno-eksperimental'ny'i institut promyshlennykh zdanů i sooruzhenů. Trudy, 1976, No.7, 208p., In Russian. Refs. passim. For selected articles see 34-2403 through 34-2405.

Industrial buildings, Heat loss, Icing, Heat transfer, Soil freezing, Frost heave.

Heat transfer through joints in external enclosures of industrial buildings in the North. [Teplotekhnicheskie kachestva uzlov sopriazheniia naruzhnykh ograzhdaiushchikh konstruktsii promyshlennykh zdanii na

Severej, Butlitskii, A.E., et al, Moscow. Tsentral'nyi nauch-Dumiskii, A.E., et al, Moscow. Tsentral'ny'i nauchno-issledovatel'skii i proektno-eksperimental'ny'i institut promyshlennykh zdanù i sooruzhenù. Trudy, 1976, Vol.7, p.59-75, ln Russian. 5 refs. Golubchikova, O.G.

Industrial buildings, Walls, Joints (junctions), Heat loss, Moisture transfer, Icing.

34-2404

Calculating electric heating of bearing ground beneath refrigerator columns. Raschet moshchnosti obogreva grunta osnovanna kholodil'nika v oblasti temperaturnogo vozdetstvija kolonni.

Gindoran, A.G., et al, Moscow Tsentral'nyi nauch-no-issledovatel'skii i proektro-eksperimental'nyi in-stitut promyshlennykh zdanii i sooruzhenii. Trudy. 1976, Vol.7, p.88-107, In Russian Grushko, V.I.A., Duranov, E. F. 1 refs

Cooling systems, Refrigeration, Foundations, Soil freezing, Frost heave.

34-2405

Experimental determination of the thermal activity coefficient of floors. [K metodike eksperimental nogo opredelenia koeffitsienta teplovot aktivnosti polovi Gindoian, A.G., et al, Moscow Tsentral'ny'i nauchno-issledovateľsků i proektno-eksperimental'nyi :n-1976, Vol.7, p.108-124, In Russian. Filippov, N.P.

Buildings, Floors, Heat transfer, Heat loss.

34-2406

Submarine permafrost on the Alaskan continental shelf.

Vigdorchik, M.E., Boulder, Colorado, Westview Press.

1980, 118p., Refs. p.111-118. Subsea permafrost, Glaciation, Shoreline modification, Permafrost physics, Paleoclimatology, Geomorphology, Topography, Mapping, Beaufort Sea, Chukchi Sea.

34-2407

Arctic Pleistocene history and the development of submarine permafrost.

Vigdorchik, M.E., Boulder, Colorado, Westview Press, 1980, 286p., Refs. p.245-286.
Subsea permafrost, Glaciology, Sea ice distribution,

Ice melting, Paleoclimatology, Pleistocene, Shore-line modification, Thermodynamic properties, Salinity, History, Polar regions.

34-2408

Pipe bridge solves heaving problems, Oilweek, Feb. 4. 1980, 30(52), p.7. Bridges, Pipes (tubes), Frost heave.

34-2409

Snow load analysis for structures.

Rusten, A., et al., American Society of Civil Engineers Structural Division. Journal. Jan. 1980, 106(ST1), p.11-21, 31 refs. Sack, R.L., Molnau, M. Snow loads, Structures, Bearing strength, Roofs.

34-2410

Floating ice platforms: offshore oil exploration.

Masterson, D. M., et al., American Society of Civil Engineers.

Structural Division. Journal, Jan. 1980.

106(ST1), p.133-143, 15 refs. Kivisild, H.R. Offshore drilling, Oil recovery, Artificial islands, Ice islands. Ice (construction material).

34.2411

Environmental studies in the central Quebec-Labra-

dor Peninsula: Finnish contributions.

McGill Subarctic Research Station, Schefferville,
Quebec, McGill University, Montreal. Sub-arctic
Research Laboratory, Schefferville, Que. McGill
sub-arctic research papers, Jan. 1980, No.30, 89p., Nu-

merous refs. passim.

Research projects, Subarctic landscapes, Vegetation patterns, Ecology.

The paper is composed of 9 reports by exchange Finnish scientists on their investigations in the Quebec-Labrador Peninsula Topics include: fungi; vascular plants, cloudberry bushes; insect herbivores of birch foliage; invertebrates of birch and tamarack, growth of lepidopteran larvae; ground layer invertebrates; butterflies, and sediment transport.

34-2412

Statistical structure of the fields of precipitation and snow cover in mountains. (O statisticheskol strukture polei osadkov i snezhnogo pokrova v gorakhj, Getker, M.I., Sredneaziatskii regional'nyi nauchno-

cutter, M.1. Stedneaziatskii regional'nyi nauchno-issledovatel'skii gidrometeorologicheskii institut. Trudy, 1979, Vol.70, p.40-51, ln Russian. 13 refs. Precipitation (meteorology), Snow cover structure, Snow depth, Statistical analysis, Mountains.

34-2413 Glaze-wind forces on power lines in Central Asia. ¡Gololedno-vetrovye nagruzki na vozdushnykh liniiakh v Srednet Aziij,

Leukhina, G.N., Sredneaziatskii regional'nyi nauchno-Leukhina, G.N., Stellieariatskii regional iiji naukiniisisledovatel'skii gidrometeorologicheskii institut. Trudy. 1979, Vol.70, p.67-72, In Russian. 4 refs. Power line icing, Power line supports, Ice accretion, Ice loads, Wind factors, Loads (forces).

Moisture transport in the atmosphere during abundant precipitation in the Zeravshan and Kashkadarya basins in winter and spring. (O perenose vlag) v atmos-fere pri obil'nykh osadkakh v basselnakh rek Zeravrere pri obil nykn osadkaki v basseniaki rek Zeravshan i Kashkadad'ia v zimni) i vesennil period<sub>1</sub>. Voinova, T.A., et al, Sredneaziatskii regional'nyi nauchno-issledovatel'skii gidrometeorologicheskii institut. Trudy, 1979, Vol.70, p.79-84, In Russian. 13

Il'inova F S

Precipitation (meteorology), Snow accumulation, Moisture meters, Seasonal variations, Weather observations.

34-2415

Ice regime and severity of winters on the Aral Sea. [Ledovitost' i surovost' zim na Aral'skom more]. Temnikov, S.N., Sredneaziatsků regional'nyi nauch-Trudy, 1979, Vol.66, p.75-81, In Russian. 11 refs. Ice conditions, Sea ice, Air temperature, Statistical analysis, USSR-Aral Sea.

34-2416

Use of heat pipes for freezing soil, Pt. 1.

Vaaz, S.L. Journal of engineering physics, Nov. 1979, 36(5), p.608, Translated from Inzhenerno-fizicheskii zhurnal, 36(5), p.910-913, May 1979.

Heat pipes, Soil freezing, Artificial freezing, Permafrost control, Models.

34-2417

Biodynamics and soil productivity, Biodinamika i

Biodynamics and soil production production production by finamika pochy, 2nd, Tallin, 1979, Tallin, AN ESSK 979, 211p., In Russian. Refs. passim. For selected papers see 34-2418 through 34-2420. Rakhno, P.Fh., ed.

Soil micr Jogy, Taiga, Tundra, Bacteria, Seasonal variations.

34.2418

Dynamics of microbial biomass in taiga soils of West Siberia. (Dinamika mikrobnol biomassy v pochvakh taezhnogo landshafta Zapadnol Sibiri).

Antonenko, A.M., et al, Biodinamika i plodorodie pochvy; Materialy 2 simpoziuma Biodinamika pochv (Biodynamics and soil productivity; Proceedings of the 2nd Symposium on Biodynamics of soils). Edited by P.Kh. Rakhno, Tallin, AN ESSR, 1979, p.69-72, In Russian. 3 refs. Nikitina, Z.I.

Soil microbiology, Taiga, Biomass.

34-2419

Population dynamics of microorgamisms in podsol in Kola Peninsula. ¡Dinamika chislennosti mikroor-ganizmov v podzolistykh pochvakh Kol'skogo poluos-

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Logvinova, M.M. Soil microbiology, Podsol, Seasonal variations, Bacteria.

Dynamics of bacterial community growth in tundra soils of southern Taymyr. [Dinamika razvitila bak-terial nykh soobshchestv v iuzhnykh tundr Taimyra]. Parinkina, O.M., Biodinamika i plodorodie pochvy; Materialy 2 simpoziuma Biodinamika pochv (Biodynamics and soil productivity: Proceedings of the 2nd Symposium on Biodynamics of soils). Edited by Symposium on Biodynamics of soils). Edited by P.Kh Rakhno, Tallin, AN ESSR, 1979, p.100-103. In Russian. 2 refs

Tundra, Soil microbiology, Bacteria.

34-2421

Non-linear theory relating to visco-compressible Non-linear theory relating to visco-compressible materials with applications to snow mechanics. Costes, N.C., Raleigh, University of North Carolina, 1965, 250p., University Microfilms order No.65-14,107, Ph.D. thesis. Refs. p.229-241. Snow mechanics, Snow elasticity, Snow compression, Viscosity, Snow (construction material), Engineering Pocifica Theories

ing, Design, Theories.

34-2422

Properties of frozen base course in West Texas. Campbell, W.R., Jr., et al. *Texas Transportation Institute*. *Research report*, Mar. 1979, 207-4, 94p. PB-300

Lytton, R.L.

Pavement bases. Frost heave. Freeze thaw cycles. Soil freezing.

34-2423

Seasonal oil production scheme for iceberg-infested waters, Part 2.

Duval, J., et al, Ocean industry, Jan. 1980, 15(1), p.19-20, 25-26.

Mercier, G., Morin, P Oil recovery, Offshore drilling, Bottom drilling, Icebergs, Ice scoring.

34-2424

Trials of the deicing equipment installed on YTB-771

Kenney, W.P., U.S. Department of the Navy. David W. Taylor Naval Ship Research and Development Center, Bethesda, Maryland. Report. Sep. 1976, 137 to 10 224 to 10 165, rot meet use only

Ship icing, Ice removal.

34-2425

34-2435 Cold weather concreting. Skokic, Illinois, Portland Cement Association, 1975, 9p., 10 refs. Winter concreting, Insulation, Heating, Concrete placing, Air entrainment, Concrete strength.

34-2426

Plant cold hardiness and freezing stress: mechanisms and crop implications.

Li, P.H., ed, New York, Academic Press 1978, 416p., Proceedings of an International Seminar on Plant Cold Hardiness, St. Paul, Minnesota, Nov. 2-4, 1977. merous refs. passim.

Sakai, A., ed. DLC QK756.P53

Meetings, Cold stress, Cold tolerance, Plants (botany), Plant physiology, Vegetation, Agriculture, Acclimatization, Supercooling.

34-2427

Studies of radiative cooling at land basins in snowy

Ishikawa, N., Hokkaido, University. Institute of Low Temperature Science. Contributions, 1977, Series A No.27, p.1-46, 31 refs. DLC QC1.H65 no.27

Temperature inversions, Heat transfer, Snow air interface, Radiant cooling, Heat balance, Mountains.

Growth of ice in a saltwater drop falling in an organic phase.

Bustany, S.T., et al. American Institute of Chemical Engineers. AICHE journal, May 1979, 25(3), p.439-

Harriott, P., Wiegandt, H.F. Ice growth, Salt water, Mathematical models, Heat transfer, Mass transfer, Desalting.

Iceberg scouring on the Labrador Shelf, Saglek Bank. Gustajtis, K.A., Memorial University of Newfoundland. Centre for Cold Oceans Resources Engineering. C-CORE publication, Nov. 1979, 79-13, 89p., ing. C 57 refs.

Icebergs, Ice scoring, Seismic surveys, Ocean currents, Drift.

Project SAR '77 summary report.
Worsfold, R.D., ed. Memorial University of Newfoundland. Centre for Cold Oceans Resources Engineering. C-CORE publication, Dec. 1979, 79-15, 402p., Refs. p.397-402.

Sea ice, Floating ice, Icebergs, Radar echoes, Aerial surveys, Ground truth, Oceanography, Meteorologi-

Mass balance of the Ward Hunt Ice Rise and Ice

Mass balance of the Ward Fluit fee Rise and Lee Shelf: an 18 year record.

Serson, H.V., Canada. Defence Research Establishment Pacific. Technical memorandum, Nov. 1979, 79-4, 14p., In English with French summary. 18 refs. Ice accretion, Mass balance, Ablation.

Effect of third generation tire studs on pavement wear reduction, 1977-1979; report of test results on wear from various tire-stud combinations.

Cook, J.C., Washington. State University. Trans portation Engineering Section. Report, June 1979, No.79/15-27, 88p., 20 refs.

Pavements, Damage, Tires.

34-2433

Environmental geology and geomorphology of the barrier island-lagoon system along the Beaufort Sea coastal plain from Prudhoe Bay to the Colville River. Cannon, P.J., et al., Alaska University Sea Grant Program. Report, Aug. 1979, 79-6, Alaska Science Conference, 29th, Fairbanks, Aug. 15-17, 1979. Proceedings (Alaska fisheries: 200 years and 200 miles of change), edited by B.R. Melteff, p.335-345, 12 refs Rawlinson, S.E.

Offshore landforms, Shore erosion, Tundra, Sediment transport

34-2434

Drainage network analysis of a subarctic watershed. Bredthauer, S., et al, Alaska, University, Sea Grant Trogram, Seport, Aug. 1777, 1979, Mr. 1274, Alaska Science Conference, 29th, Fairbanks, Aug. 15-17, 1979, Proceedings (Alaska fisheries: 200 years and 200 miles of change), edited by B.R. Melteff, p.349-359, 8 refs. Hoch D.

Watersheds, Drainage, Stream flow.

A drainage network map of the Caribou-Poker Creek Research Watershed, near Fairbanks, Alaska, has been used to conduct a Strahler stream order analysis and an analysis of length distri-butions of source and tributary-source links in a subarctic waterbutions of source and tributary-source links in a subarctic water-shed. The basins have very low drainage densities, ranging from 135 km sq.km to 534 km sq.km. Bifurcation ratios were higher than those found in watersheds in the continental U.S. Statistical analysis indicates that source and tributary-source links in a subarctic watershed belong to different length popula-tions, the same as found in other regions of the world. Addi-tional analysis indicates that exterior links originating on per-maffrost slopes tend to be shorter than those originating on non-permaffrost (well-drained) slopes.

14.2435

Frost susceptibility of some gravels used in road construction in Ireland.

Davitt, S., Dublin, 1978. 35p., 7 refs.

Gravel, Frost resistance, Frost heave, Roads, Ireland.

34.2436

Effect of permafrost on evolution of river beds and hydraulic structures built on river beds and river banks. Whianic vechnol merzloty na ruslovyc protsessy i gidrotekhnicheskie sooruzheniia, raspolozhen-

tsessy gudovanimensa solvularina taspoloziten nye v rusle i na beregakh rekj. Levashov, A.A., et al. Leningrad Politekhnicheskii institut. Mezhvuzovskii sbornik, 1977, No.63, p.12-17, In Russian. 9 refs. Politekhnichesků

Shmidt, S.V., Strel'chenia, O.M., Kovrigin, I.M. Permafrost beneath rivers, Permafrost beneath structures, Permafrost thermal properties, River basins. Hydraulic structures, Banks (waterways), Drift, Active layer, Floods.

34-2437

Ecological and phytocenological complexes of Asiatic Russia (Experience in mapping). [Ekologo-fitotsenoticheskie kompleksy Aziatskol Rossii (Opyt kartografirovaniia)1.

Ogland Vanida).
Sochava, V.B., ed, Irkutsk, Institut geografii Sibiri i
Dal'nego Vostoka, 1977, 70p. + map. In Russian.
Refs. passim. For selected article see 34-2438. Arctic landscapes, Vegetation patterns, Plant ecology, Geobotanical interpretation, Mapping, Clas-

sifications. 34-2438

Method of compiling and brief analysis of a correlative ecological and phytocenological map of Asiatic Russia, scale of 1:7,500,000. [Metodika sostavleniia i

kratkii analiz korreliatsionnol ekologo-fitotsenotiches-koi karty Aziatskoi Rossii m. 1:7 500 000j. Buks, I.I.. Ekologo-fitotsenoticheskie kompleksy Aziatskoi Rossii (Opyt kartografirovaniia) (Ecological and phytocenological complexes of Asiatic Russia (Experience in mapping)). Edited by V.B. Sochava, Irkutsk, Institut geografii Sibiri i Dal'nego Vostoka.

1977, p.15-54, In Russian. 30 refs. Arctic landscapes, Mapping, Plant ecology, Vegeta-tion patterns, Classifications.

34.2430

Proceedings

leeberg Dynamics Symposium, St. John's, Newfoundland, Canada, June 4-5, 1979. Cold regions science and technology. Feb. 1980, 1(3/4). p.167-306. For individual papers see 34-2440 through 34-2452, or F-2081. 22981, G-22982 and F-22983 Russell, W.E., ed.

Meetings, Icebergs, Dynamic properties.

This issue is devoted to the papers presented at an international symposium dealing with theoretical and practical problems associated with iceberg drift. The symposium was sponsored by the Newfoundland Oceans Research and Development Corp., with assistance from the U.S. Coast Guard and the Department of Industrial Development, Province of Newfoundland and

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Labrador Participants included scientists and engineers who had contributed to the understanding of the physical nature of receberg drift and to the development of concepts or systems related to born utilization of icebergs and to protection of structures from iceberg impact

### 34-2440

West Greenland outlet glaciers: an inventory of the major iceberg producers.

Kollmeyer, R.C., Cold regions science and technology, Feb. 1980, 1(3/4), p.175-181, 4 refs.
Icebergs, Glaciers, Ice conditions, Greenland.

### 34-2441

Long-term drift of icebergs in Baffin Bay and the Labrador Sea.

Robe, R.Q., et al., Cold regions science and technology, Feb. 1980, 1(3-4), p.183-193, 8 refs. Maier, D.C., Russell, W.E.

Icebergs, Drift, Remote sensing, Tracking (position). 34-2442

Potential of SAR in detecting and monitoring ice-

Parashar, S., et al. Cold regions science and technology, Feb. 1980, 1(3/4), p.195-210, 17 refs. Stapleton, G., Worsfold, R.

Icebergs, Radar echoes, Radar tracking, Remote sensing.

### 34-2443

Ocean eddy structure by satellite radar altimetry re-

quired for iceberg towing.

Campbell, W.J., et al. Cold regions science and technology, Feb. 1980, 1(3/4), p.211-221, 16 refs.

Cheney, R.E., Marsh, J.G., Mognard, M.N.

Ocean currents, Spacecraft, Iceberg towing.

Ocean currents, Spacecraft, Iceberg towing.

Recent sceanographic research indicates that most of the ocean momentum is probably involved in intense rings, formed by meanders of the large streams, and in mid-ocean eddies. These rings and eddies have typical dimensions on the order of 200 km with dynamic height anomalies across them of tens of centimeters to a meter. They migrate at speeds on the order of a few misce. Current velocities as great as 3 knots have been observed in rings, and currents of 1 knot are common. Thus, the served in rings, and currents of 1 knot are common successful towing of icebergs is dependent on the ability to locate, measure, and track ocean rings and eddies. To accomplish this systematically on synoptic scales appears to be possible only by using satellite-borne radar altimeters. Ocean current and eddy structures as observed by the radar altimeters on the GEOS-3 and Seasat-1 satellites are presented and compared. The Antarctic Circumpolar Current is ideally suited for using this technique to identify, monitor and eventually map its rings and eddies on synoptic scales. (Auth. mod.)

## 34-2444

Environmental factors affecting iceberg scour estimates.

Chari, T.R., et al, Cold regions science and technology, Feb. 1980, 1(3/4), p.223-230, 15 refs. Peters, G.R., Mathukrishnaiah, K.

Icebergs, Ground ice, Ice scoring, Models.

# 34-2445

High-force towing.

Mellor, M., Cold regions science and technology, Feb. 1980, 1(3/4), MP 1275, p.231-240, 5 refs. Iceberg towing, Loads (forces).

1980, 1(3/4), MP 1275, p.231-240, 5 refs.

Iceberg towing, Loads (forces).

Required force levels for iceberg towing at 1 knot could be at least 50 tons for protection of structures and drillships in northern waters, and around 1000 tons for iceberg exports from the Antarctic. Corresponding values of effective ("towrope") power are only 307 hp and 6140 hp, respectively. Moderately large conventional tugs typically have thrust/power (T/P) ratios of 20-25 lbf/hp with unshrouded propellers, and perhaps 30%-40% more with Kort nozzles. As tug size increases, the propeller loading usually has to increase and T/P decreases. A conventional-hull supertug capable of 1000 tons thrust would probably have T/P = 10 lbf/hp, p = 200,000 hp, and a propulsive efficiency of about 3%. Unconventional propellers, paddles, and water jets have little to offer, but efficiency could be improved with an unconventional hull that provides space for large propeller area. If an iceberg is propelled by pulling a drogue towards it, the propulsive efficiency increases as speed of the drogue decreases, but the required drogue area increases. For antarctic towing the demands exceed current capabilities for winch force, winch power and line speed. If an iceberg is towed against a bottom anchor, the propulsive efficiency is 100%, and power demands are modest. While such a system is feasible for relatively shallow waters, it would be very difficult to use in the deep oceans. For any system that has to develop very high towing forces, the tow cable itself is a problem. The safe working load of 6-in. wire rope is less than 300 tons, or 3 1/2 times less than the 1000-ton force that might be needed to move useful antarctic icebergs. The most practical expedient for antarctic towing seems to be use of multiple conventional tugs, with fewer tugs or higher speeds as the iceberg reduces its size and streamlines itself. The practical difficulty of towing antarctic icebergs may have been underestimated, and it might be worth reconsidering preliminary shaping

# 34-2446

On the size distribution of Antarctic icebergs. Neshyba, S., Cold regions science and technology, Feb. 1980, 1(3/4), p.241-248, 14 refs. Icebergs, Distribution, Models, Antarctica.

Composites are given of six reported antarctic iceberg size distributions, and theoretical Rayleigh distributions are fitted with reasonable small errors. A modal length of 0.4km is found for observations in East Antarctica; this increases to 0.7km when size data for icebergs observed by satellite in or near the packies in the Bellingshausen Sea are added. Results of model investigation of the equilibrium or standing population size distribution, based on the Gordienko observations of sizes near the force of the Shelf in a transfer and the same line Shelf in the same line Amery (e. Shelf as initial conditions and annual input together with the constraints of uniform sidewall wastage rate and that length, width ratios be maintained within the range 1 1 to 2 2 by length width ratios be maintained within the range 1 1 to 2 2 by scoberg fracturing into equal parts, show a distribution much unlike the Rayleigh in that the highest probability of occurrence is of icebergs of widths 0-0.2km. The model size distribution attains equilibrium after 21 years, at which time it is fitted very well to a Weibull distribution with parameters beta = 0.5, eta = 1 6 and gamma = 0. A method is outlined by which the size distribution of freshly-calved icebergs might be assessed for use as the initial condition to such models. (Auth.)

## 34-2447 Experiments involving melting of a large ice block

towed in sea water.
Fuhs, A. E., et al., Cold regions science and technology,
Feb. 1980, 1(3/4), p.249-264, 17 refs.

Ice melting, Ice deterioration, Icebergs, Experimentation, Sea water.

Measurement of thermal conduction within a large fresh water ice block being towed in sea water

Clifford, W., et al, Cold regions science and technology, Feb. 1980, 1(3/4), p.265-272, 7 refs. Erman, R., Fuhs, A., Stolfi, R.

Thermal conductivity, Iceberg towing, Ice temperature, Heat transfer, Experimentation.

# 34-2449

34-2449
On predicting Iceberg drift.
Mountain, D.G., Cold regions science and technology.
Feb. 1980, 1(3/4), p.273-282, 5 refs.
Icebergs, Drift, Ice forecasting, Models, Wind fac-

tors, Ocean currents.

Iceberg drift observations in Lancaster Sound.

Riggs, N.P., et al. Cold regions science and technology, Feb. 1980, 1(3/4), p.283-291, 4 refs.
Thangam Babu, P.V., Sullivan, M.A., Russell, W.E. Icebergs, Drift, Ice conditions, Ocean currents, Meteorological factors, Lancaster Sound. 34-2451

Monte Carlo simulation of iceberg impact probabili-

Reddy, D.V., et al, Cold regions science and technology, Feb. 1980, 1(3/4), p 293-297, 4 refs.

Arockiasamy, M., Cheema, P.S., Riggs, N.P.

Icebergs, Computerized simulation, Mathematical

## models, Impact, Offshore structures. 34-2452

Dimensional modelling of icebergs.

Benedict, C.P., Cold regions science and technology, Feb. 1980, 1(3/4), p.299-306, 1 ref. Icebergs, Ice models, Mathematical models.

# 34-2453

Western Ross Sea and McMurdo Sound ice forecasting guide.

ing guide.

Perchal, R.J., U.S. Naval Oceanographic Office. Special publication, June 1975, NOO SP-265, 132p., Refs. p.59-62.

Sea ice, Ice conditions, Ice forecasting, Pack ice,

Meteorological factors, Long range forecasting, Antarctica—Ross Sea, Antarctica—McMurdo Sound.

rarctica—Ross Sea, Antarctica—McMurdo Sound. Procedures for preparing short-range (48-hour) forecasts and long-range (15- and 30- day) estimates of austral summer sea icc conditions in the western Ross Sea and McMurdo Sound are given. Background data on environmental factors of mean storm tracks, mean monthly sea level pressure (winds) and surface air temperature over the Ross Sea and austral summer icc conditions over the western Ross Sea and McMurdo Sound are given. Analyses of historical ice edge data which are based on observations taken over sixteen years from Deep Freeze 1 (1955-56) through Deep Freeze 71 (1970-71) indicate median positions of the north and south pack edges at half-monthly intervals from October through January. Ice data also include the range of locations of pack edges, distribution of pack concentrations, percentage of large floe sizes, and ice thickness. Analyses of the thickness and median extent and extremes of fast ice in McMurdo Sound are included. Selection of optimum ice routes is described, using mean ice concentrations and the percentage of large floe sizes. (Auth mod.) 34-2454

# 34-2454

Three examples of unsolved problems in antarctic radiation research.
Kuhn, M., Desert Research Institute. Laboratory of

Atmospheric Physics. Technical report, 1975, Ser. P. No.18, Report of Polar Meteorology Workshop, Reno,

Nevada, 1975, p.66-67.
Snow surface, Reflectivity, Radiation absorption, Heat transfer.

The following problems identified in research relating to radiation in the Antarctic are discussed: 1) optical determination of

long-term trends in the pollution (turbidity) of stratospheric air masses, 2) analysis of the reflective properties of the snow surface in terms of ray geometry, age or crystallography of the snow, and surface features, 3) the use of reflective properties of snow in near infrared wavelengths as a basis for computing the amount of atmospheric heating in the H20 and CO2 absorption

## 34-2455

911 years of microparticle deposition at the South Pole: a climatic interpretation.

Thompson, E.M., Columbus, Ohio State University, 1979, 200p., Ph.D. thesis. Refs. p.187-200.
Ice cores, Drill core analysis, Electron microscopy,

Particles, Paleoclimatology, Antarctica—South Pole.

Particles, Paleoclimatology, Antarctica—South Pole. A detailed analysis is presented of the particles in a 101-m core from Amundsen-Scott Station, which contains approximately a one thousand year record of atmospheric particle concentrations over the East Antarctic plateau. The work is organized in 8 chapters: 1) an introduction; 2) the physical and meteorological characteristics of the central Antarctic plateau, 3) the climatic history of the earth, with emphasis on the Little Ice Age. 4) the basic properties of the tropospheric and stratospheric particles, 5) a technical description of the entire microparticle analysis procedure; 6) details of the method used to construct the time scale for the 101-m core, 7) interpretation of the microparticle data, and 8) conclusions and future research. Supplementary tables and scanning electron microscope micrographs are presented in appendixes. graphs are presented in appendixes.

Hot Arctic.

Dyson, J., Boston, Little, Brown and Co., 1979, 290p., No microfiche available.

Cold weather operation, Equipment, Oil spills, Pipelines, Water pollution, Icebreakers, Environmental impact, Survival, Animals.

### 34-2457

Taiga in the global ecosystem. [Taiga v global'noi eko-

sisteme Zemlij, Rasshirennoe zasedanie Nauchnogo Soveta Sibirskogo vassinelinio Zasedanie Auchinogo Soveta Siriskogo oldeleniia AN SSSR po kompleksnomu osvoeniiu ta-ezhnykh territorii, Irkutsk, May 24-25, 1977, Irkutsk, Institut geografii Sibiri i Dal'nego Vostoka, 1978, 112p., In Russian. Refs. passim. For selected papers see 34-2458 through 34-2470. Mikhailov, IU.P., ed.

Taiga, Landscape types, Forest ecosystems, Environ-mental protection, Human factors, Geobotanical interpretation.

Taiga geosystems and problems of interaction be-tween man and taiga. Geosistemy taigi i problemy sotvorchestva cheloveka s taezhnol prirodolj,

Sochava, V.B., Taiga v global'noi ekosisteme Zemli (Taiga in the global ecosystem) edited by IU.P. Mikhallov, Irkutsk, Institut geografii Sibiri i Dal'nego Vostoka, 1978, p.5-13, In Russian.

Taiga, Forest ecosystems, Geobotanical interpreta-tion, Landscape types, Biomass, Moisture, Solar radiation, Human factors, Models.

# 34-2459

Taiga and its place in the global ecosystem. [Taiga i

langa and its place in the global ecosystem. [langa i ee mesto v global nol ekosisteme], Krauklis, A.A., et al, Talga v global nol ekosisteme Zemli (Taiga in the global ecosystem) edited by IU.P. Mikhallov, Irkutsk, Institut geografii Sibiri i Dal'nego Vostoka, 1978, p.14-26, In Russian. 19 refs. Mikhallov, IU.P. Taiga. Forest ecosystems. Geobotanical interpreta-

Taiga, Forest ecosystems, Geobotanical interpretation, Human factors, Water reserves.

# 34-2460

Experiment in landscape studies for optimizing taiga

Experiment in landscape studies for optimizing taiga landscapes of the European USSR. [Opyt landshaftnykh issledovanii v tseliakh optimizatsii taezhnykh landshaftov evropelskoi chasti SSSR], lsachenko, A.G., Taiga v global noi ekosisteme Zemli (Taiga in the global ecosystem) edited by IU.P. Mikhailov, Irkutsk, Institut geografii Sibiri i Dal'nego Vostoka, 1978, p.26-34. In Russian. 6 refs.

Taiga, Landscape types, Geobotanical interpretation, Environmental protection.

Remote sensing of taiga geosystems in different spec-

tral ranges. (Distantsionnaia indikatsiia taezhnykh geosistem v raznykh spektral'nykh intervalakh). Vinogradov, B.V., Taiga v global'nof ekosisteme Zemli (Taiga in the global ecosystem) edited by IU.P. Mikhallov, Irkutsk, Institut geografii Sibiri i Dal'nego Vostoka, 1978, p.34-42, In Russian. 14 refs. Copheteni

Taiga, Landscape types, Remote sensing, Geobotanical interpretation, Forest ecosystems, Aerial surveys,

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Forest resource analysis as a bioeconomical approach to studying the natural potential of taiga. (Lesnoe resursovedenie kak bioekonomicheskii podkhod k izu-

resursovedenie kak bioekonomicheskii podkhod k izucheniiu prirodnogo potentsiala talgij, Sheingauz, A.S., Taiga v global'not ekosisteme Zemli (Taiga in the global ecosystem) edited by IU.P. Mikhaitov, Irkutsk, Institut geografii Sibiri i Dal'nego Vostoka, 1978, p.42-53, In Russian. 24 refs. Taiga, Forest ecosystems, Geobotanical Interpretation, Forestry, Wood.

34-2463

Spruce forests as a stabilizing component of taiga biome in the European North, [El'niki kak stabilizirui-ushchil komponent taezhnogo bioma na Evropetskom Severer.

Dyrenkov, S.A., Tatga v global'not ekosisteme Zemli (Taiga in the global ecosystem) edited by IU.P. Mikhailov, Irkutsk, Institut geografii Sibiri i Dal'nego Vostoka, 1978, p.53-58, In Russian. 8 refs.

Taiga, Forest ecosystems, Growth, Human factors, Wood, Forestry.

Structural potential and improvement in the use of pine forests of various ages in Siberia. [Strukturnyt

pine forests of various ages in Siberia. (Strukturnyt potentsial i voprosy ratsionalizatsii lesopol'zovaniia v raznovozrastnykh sosnovykh lesakh Sibiri). Verkhunov, P.M., Talga v global'not ekosisteme Zemli (Taiga in the global ecosystem) edited by IU.P. Mikhallov, Irkutsk, Institut geografi Sibiri i Dal'nego Vostoka, 1978, p.58-63, In Russian.

Taiga, Forestry, Forest ecosystems, Wood.

14.2465

Taiga larch forests in Sikhote-Alin and their manage-

Taiga larch forests in Sikhote-Alin and their management. (Taczhnye listvennichnye lesa Sikhote-Alinia i khoziatstvo v nikh).
Gukov, G.V., Taiga v global nol ekosisteme Zemli (Taiga in the global ecosystem) edited by IU.P. Mikhallov, Itkutsk, Institut geografii Sibiri i Dal'nego Vostoka, 1978, p.63-70, In Russian.
Taiga, Forestry, Forest ecosystems, Economic develages.

opment, Wood.

34-2466

Dynamics of spruce ecosystems in the southern taiga. Osobennosti funktsionirovaniia ekosistem el'nikov IUzhnol talgiy, Glazov, M.V., et al, Talga v global'nol ekosisteme

Ciazov, M.V., et al. Taiga V globai noi ekosisteme Zemli (Taiga in the global ecosystem) edited by IU.P. Mikhailov, Irkutsk. Institut geografii Sibiri i Dal'nego Vostoka, 1978, p.70-73, In Russian. Tishkov, A.A., Chernyshov, N.V. Taiga, Forest ecosystems, Growth.

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not peremenot uslovit uvlazhneniiaj, Shvergunova, L.V., et al, Talga v global not ekosisteme Zemli (Taiga in the global ecosystem) edited by IU.P. Mikhailov, Irkutsk, Institut geografii Sibiri i Dal'nego Vostoka, 1978, p.74-'0, In Russian. Mikhailova, G.A., Goriainova, I.N.

Taiga, Geobotanical interpretation, Forecasting, Moisture, Mapping, Aerial photography, Plant ecology, Swamps.

14.2468

Outlook for the development of forest industry in the

Outlook for the development of forest industry in the Baykal Amur railroad zone. [Perspektivy razvitiia lesnoi promyshlennosti v zone BAMa], Alekhin, V.G., Taiga v global'noi ekosisteme Zemli (Taiga in the global ecosystem) edited by IU.P. Mikhallov, Irkutsk, Institut geografii Sibiri i Dal'nego Vostoka, 1978, p.80-89, In Russian.

Taiga, Forestry, Economic development, Wood.

Characteristics in studies and classification of alpine forest soils in the western Sayan. (Osobennosti izu-cheniia i klassifikatsii gorno-lesnykh pochv Zapadnogo

Kochurov, B.I., Taiga v global'noi ekosisteme Zemli Kochurov, B.I., Taiga v global noi exosisteme Zemir (Taiga in the global ecosystem) edited by IU.P. Mik-hallov. Irkutsk, Institut geografii Sibiri i Dal'nego Vos-toka, 1978. p.93-98, ln Russian. 4 refs. Taiga, Soil classification, Alpine landscapes, Soil for-mation, Soil profiles, Slope orientation, Mapping.

34-2470

Natural relationships in taiga geosystems. (O prirodnykh sviaziakh v taezhnykh geosistemakh). Nechzeva, E.G., Tatga v global not ekosisteme Zemli

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Taiga, Forest ecosystems, Geobotanical interpretation, Plant ecology.

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Glacial geology, Moraines, Landforms.

Remote sensing of snow and ice. Meier. M.F., Technical papers in hydrology, 1979, No 19, 54p., Refs. p.35-41.

Remote sensing, Spaceborne photography, Measuring instruments, Snow cover, Ice cover.

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Fu, A.Y.K., Minneapolis, University of Minnesota, 1979, 188p., M.Sc. thesis. 40 refs.

Lake ice, Freezeup, Ice forecasting, Remote sensing.

ANDSAT, Meteorological data, United States Minnesota.

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stilaiushche) poverkhnosti iz kosmosaj, Kondrat'ev, K.IA., ed, Leningrad, Gidrometeoizdat, 1979, 246p., In Russian with English table of contents enclosed. Refs. p.216-242.

Sounding, Remote sensing, Radiometry, Aerial surveys, Airborne equipment, Microwaves, Thermal effects, Glaciers, Ice, Tundra, Lakes.

Sediment transport and bed forms under ice cover. Song, G.B., Iowa City, University of Iowa, 1978, 79p., M.S. thesis. 25 refs.

Sediment transport, Ice cover effect, Bottom topography, Ice friction, River ice, Channels (waterways), Bottom sediment, Alluvium, Hydraulics, Water transport, Experimentation.

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34-24 //
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Coveney, D.B., National Research Council, Canada. Division of Mechanical Engineering. Laboratory technical report, Dec. 1979, LTR-LT-111, 15p. + 10

figs., 3 refs. Railroad equipment, Cold weather operation, Ice prevention, Snow removal, Heating.

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Winter maintenance, Road maintenance, Equipment, Road icing, Salting, Ice prevention, Snow removal, Water pollution, Soil pollution, Brines, Cost analysis. Meetings.

34-2479

Oil spill scenario for the Labrador Sea.

LeDrew. B.R., et al, Canads. Environmental Protec-tion Service. Economic and technical review report, Nov. 1979, EPS 3-EC-79-4, 675p., In English with French summary. Chapters by various authors. Numerous refs. passim. Also designated Memorial University of Newfoundland. Centre for Cold Ocean Resources Engineering. C-CORE publication 78-2. Gustajtis, K.A.

Oil spills, Sea ice, Ice conditions, Icebergs, Marine geology, Climatology, Oceanography, Logistics, Environmental impact, Labrador Sea. 34-2480

Soil freezing and highway construction. Ottawa, Canada, Carlton University, 1978, 105p., Also availa-ble in French edition

Roads, Construction, Frozen ground mechanics, Frozen ground physics, Frost penetration, Soil freezing, Mathematical models.

The volume results from a seminar-course organized by the Paterson Centre, Carlton University and by the Ecole Nationale des Ponts et Chaussées, Paris, and held at Ottawa in Oct. 1977. In seventeen chapters several authors deal with various aspects of road construction on freezing soils. Some of the topics in-clude. French research on frost action, laboratory simulation, soil thermal regimes, macro- and micro-mechanisms of freezing at the interface, frost penetration and frost succeptible soils, numerical applications, frost damage presention.

34-2481

Initial report on geological materials collected at RISP site J9, 1978-79.

Webb, P.N., comp, RISP technical report 79-1, Lincoln, University of Nebraska, Oct. 1979, 127p., 13

Drill core analysis, Bottom sediment, Marine deposits, Ice shelves, Geological surveys, Glacial geology. 11s. (ce shelves, Geological surveys, Glacial geology, Sampling of 8s cores at Ross lee Shelf Project 19 was undertaken in Dec of both 1977 and 1978. An analysis of sea floor wave forms suggests that the northward movement of the Ross (ce Shelf in this region might be between 1 and 4 in a day. The lithological, paleontological and stratgraphic core analyses are described. A date of 174 in y was obtained from Rb. St dating of fine-grained detrital feldspars in a dredge sample of the core unper unit. core upper unit

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reports and projects.
Natural resources, Hydrology, River basins, Soils, Vegetation, Climate, Bibliographies, United States— Alaska-Susitna River.

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Baykal Amur railroad and economic development of the Transbaikal region. (BAM i osvoeme Zabaikal ia), Nedeshev, A.A., et al, Novosibirsk, Nauka, 1979, 158p., In Russian. Refs. p.153-158.
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Economic development, Natural resources, Topographic features, Hydrography, Transportation, Taiga, Forestry, Climate, Baykal Amur railroad, Permafrost distribution, USSR—Transbaikal.

Decomposition of plant litter and cellulose in the tundras of the Taymyr Peninsula.
Parinkina, O.M., Soviet soil science, Nov.-Dec. 1978,

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Decomposition, Plant tissues, Tundra, Wood, Cellulose.

34-2485

Core drilling through the Ross Ice Shelf (Antarctica)

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Ice shelves, Ice cores, Sea ice, Ice growth, Ice melting, Antarctica—Ross Ice Shelf.

ing, Antarctica—Ross Ice Shelf.

New techniques that have been used to obtain a continuous recover through the whole 416-meter thickness of the Ross Ice Shelf at Camp J-9 have demonstrated that the bottom 6 meters of the tee shelf consists of sea ice. The rate of basal freezing that is forming this ice is estimated by different methods to be 2 centimeters of ice per year. The sea ice is composed of large vertical crystals which form the waffle-like lower boundary of the shelf. A distinct alignment of the crystals throughout the sea ice layer suggests the presence of persistent long-term currents beneath the ice shelf. (Auth.)

34-2480
Marine seismic refraction data between Wainwright Inlet and Prudhoe Bay, Alaska.
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Johnson, S.H., Chiburis, E.F., McAllister, R.E. Seismic refraction, Tectonics, Marine geology, Cold weather operation, Data processing.

34-2487

Possible late Quaternary pingo remnants in central

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[Bituminose Beläge mit eishemmenden Zusätzen],
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65(12), p.442-447. In German and French.
Pigois, M.

Pavements, Bitumens, Ice prevention, Admixtures, Road icing.

34-2489

Mechanized snow removal systems. (Maschinelle

Schneeräumungssystemej, Rigoni, R., Strasse und Verkehr, Jan. 1980, 66(1), p.20-22, In German. Snow removal, Equipment.

14.2490

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Schelle, H., Strassen- und Tiefbau, Dec. 1979. N(33)12, p.18, 25, In German. Cold weather construction. Earthwork.

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diger denn jej. Kranz, D.G., Strassen- und Tiefbau, Dec. 1979, No.12, p.25-26, In German. Cold weather construction, Earthwork, Cost analysis.

34-2492

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skunststoffen.
Schröder, M., Strassen- und Tielbau, Jan. 1980, 34(1), p.23-24, 26-27, in German. 16 refs.
Concrete pavements, Bridges, Protection, Plastics, Salting, Chemical ice prevention, Damage, Temperature effects, Concrete strength.

34.7493

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weather construction, Permafrost beneath structures, Drilling, Subsurface structures, Permafrost thermal properties, Thermal regime.

14.2494

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Leisser, H., et al, Strasse und Autobahn, Nov. 1979, 30(11), p.486-487, In German. 2 refs.

Washuttl, J., Wurst, F. Chemical ice prevention, Road icing, Salting, Ions, Vegetation, Damage.

34-2495

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34.2496

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Tundra, Plant ecology, Growth, Nutrient cycle, Patterned ground, Soil water, Shores, United States—

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Tracy, D. Biogeography, Polygonal topography, Animals, United States—Alaska—Barrow. 34-2498

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Frozen ground physics, Frozen ground mechanics, Ground water, Soil water migration, Frost heave, Hot oil lines. Gas pipelines.

Mecent variation of ice sheet in Mizuho Plateau.
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Glacier flow, Ice sheets, Oxygen isotopes, Basal sliding, Antarctic—Shirase Glacier.

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Snow accumulation, Isotope analysis, Snow stratigraphy, Oxygen isotopes, Drill core analysis, Antarctica -Mizuho Station.

—: \*\*IZENDO STATION.\*\*

Ice-core drilling was carried out around Mizuho Station from 1970 to 1975. Resulting findings on snow accumulation in the area are discussed. Histograms of weight of unit layer for every 10 m interval and stratigraphic profiles are given. Estimates of annual accumulation at various depths and oxygen isotope profiles are also included.

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Loads (forces), Analysis (mathematics).

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Antaretica—deorge v1 1cc Sheir.

Electrical decressitivity measurements made on George V1 lee
Shelf have established the polar nature of antaretic ice despite
saturation by melt-water from surface melt-lakes. Previously
it has been suggested that different impurity concentrations are
responsible for the extremes in resistivity (a factor of 1,000) between temperate ice (essentially at its pressure melting point) and polarice (well below its pressure melting point). However the evidence suggests that importly levels are similar despite the leaching of contaminants by free water in temperate glaciers, a process which is absent in true polar glaciers. This implies process which is absent in true polar glaciers. This implies that, although impurities can significantly after the electrical behavior of glacier (e.e., there is a more fundamental mechanism at work. It is suggested that this process is one of recrystalliza-tion. (Auth.)

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analysis. 34.2558

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Research projects, Frost action, Thermal insulation, Roads, Frost resistance.

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matic changes, Glaciation.

The book deals with the global importance of ice and basic geological processes; causes of ice ages; effects of large-scale glaciation on environment; and environments during specific historical ice ages from Precambrian through Quaternary. It is intended to give insight toward understanding the processes and effects of the present ice age in order to interpret correctly earlier ice ages and to predict global climates over the few centuries. Antarctica is mentioned sporadically in the text and more frequently in photographs, charts, tables, and graphs.

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Glacial geology, Glacier ice, Glacial deposits, Sea ice,

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The author describes how glaciers form, shape, and change the environments in which they operate, both at and beneath the surface, including the plant and animal life of the habitats Rock break-up due to glacier pressure, quiet and turbulent subglacial streams, glacial deposits and unique surface features, ground ice, sea ice, and sea level changes, all as they affect and are affected by glacial and interglacial periods, are described

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Mechanics of frozen ground disintegration. [Mck-

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Sea ice, Ice physics, Ice crystal structure, Ocean currents.

Field observations at 60 sites located in the fast or near-fast ice along a 1200-km stretch of the north coast of Alaska between the new Serious districts observed the second factors of the coamples exhibit striking c axis alignments within the horizontal plane. In all cases the degree of preferred orientation increased with depth in the ice. Representative standard deviations around a mean direction in the horizontal plane are commonly less than 10 deg for samples collected near the bottom of the ice. The general patterns of the alignments support the correlation between the preferred c axis direction and the current direction at the ice water interface suggested by Weeks and Gow (1978). A comparison between caxis alignments and mistantianeous current measurements made at 42 locations shows that the most frequent current direction coincides withmean c axis direction. The c axis alignments are believed to be the result of geometric selection, with the most favored orientation being that in which the current flows normal to the (0001) plates of ice that comprise the dendritic sea ice seawater Field observations at 60 sites located in the fast or near-fast ice (0001) plates of ice that comprise the dendritic sea ice, seawater

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Traveling wave solutions of saturated-unsaturated

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Wave propagation, Water flow.

Wave propagation, Water flow.

Traveling wave solutions to the problem of saturated insaturated flow of water through a uniform porous medium are derived, and the regularity properties of the solutions are studied. It is found that a singularity occurs in the higher-order derivatives of flux with respect to the space coordinate in the solutions at water tables and that the water tables can be generally interpreted as propagating acceleration waves of the *n*th order, where *n* is a positive integer.

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Pilot scale study of overland flow land treatment in cold climates.

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Waste treatment, Water chemistry, Irrigation, Cold weather tests.

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Primary and secondary wastewaters were applied to separate sections of an overland flow site. The dimensions of each section were 3 m in width by 30 m in length and the system was graded to a five percent slope. The site was planted with orchard grass and tall fescue. A one-year acclimation period was allowed to obtain a good cover. Wastewater was applied to the site for one month before onset of the study to establish a high level of microbial activity. Applied wastewater as well as surface and subsurface flows were monitored for NO-3. NH + 4. TKN, BOD, suspended solids, PH, conductivity, and total phosphorus. The results indicate excellent warm weather performance for removal of oxygen demanding substances, suspended anatter and nitrogen. Treatment efficiency of suspended solids remained high throughout the winter while treatment of BOD declined to unacceptable levels at soil temperatures below 4C. Nitrogen treatment declined rapidly below 14C. The form of introgen applied to overland flow was found to affect performance with nitrate being the less desirable form. Phosphorus treatment by overland flow was found to be about 80°, in the summer months, declining to nil during the winter.

Low-frequency surface impedance measurements at some glacial areas in the United States.

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Delaney, A.J Radio waves, Wave propagation, Radio communica-

tion. Measurements of apparent resistivity and phase derived from the complex surface impedance of radio waves propagating in the ground wave mode at frequencies in the radio navigational aid band (between 257 and 382 kHz) are presented. Areas encompassing between 400 and 800 sq km that covered a variety of glacial sediments, land forms, and some crystalline bedrock types were surveyed. The degree of dispersion found in resistivity values reflects the dispersion in grain size, while the average resistivity increases with mean grain size. Dielectric properties are suggested as one cause of the low phases observed over crystalline bedrock. The combination of apparent resistivity and phase data implies that the resistivity measurements

are consistent in about 50% of the areas with previous measurements of field strength attenuation performed in the AM broad-

Analysis of circulation patterns in Grays Harbor, Washington, using remote sensing techniques.

Washington, using remote sensing techniques.
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Remote sensing, Tidal currents, Water flow.
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Ice crystal growth, Supercooled clouds, Particle size

distribution, Ice physics, Hourfrost, Ice pressure.

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Mossop, S.C., Geophysical research letters, Feb. 1980, 7(2), p.167-169, 9 refs.

lce crystal growth, Cloud physics, Particle size distribution, Supercooled clouds, Drops (liquids), Hoarfrost, Doped ice.

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Dynamics of near shore ice.

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Sea ice, Pack ice, Drift, Remote sensing.

Study of climatic effects on fast ice extent and its seasonal decay along the Beaufort-Chukchi coasts. Barry, R.G., Environmental assessment of the Alaskan continental shelf. Vol.2 Physical science studies. Principal investigators' final project reports, Boulder, Colorado, Outer Continental Shelf Environmental Assessment Program, 1979, p.272-375, Numerous refs. Fast ice, Ice conditions, Seasonal variations, Climatic factors, Synoptic meteorology, Remote sensing.

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### 34.2685

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## 34-2687

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# 34-2692

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Andrews, M., et al, Colorado. University. Institute

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Glacier tongues, Slope orientation.

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Permeability. Filters, Freezing, Hydraulic jets, Liquefied gases, Laboratory techniques.

Winter environmental data survey of the drainage ba-

sin of the upper Sustina River, Alaska.
Bilello, M.A., U.S. Army Cold Regions Research and
Engineering Laboratory, Apr. 1980, SR 80-19, 30p.,
ADA-086 931, 6 refs.

Climate, Ice cover, Snow cover, Meteorological data, Winter, United States-Alaska-Susitna River.

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Research projects, Sea ice, Icebergs, Ice sheets, Ocean currents, Climate, Remote sensing, Spaceborne photography, Antarctica, Greenland.

In this report the various connections in both arctic and anti-retic regions between ice in its many forms and world climate are shown global heat balance effects from sea ice and the role of ice sheets in climatic processes, the hazards of ice and snow related to urban areas and the economic impact of removing these hazards, the effect of sea ice on offshore oil discoveries and recoveries, use of the fresh water in icebergs, glaciers, and snow cover. The ICEX program expects to treat all of these aspects through a multidisciplinary, international approach involving new observational tools, theoretical studies, and applications of new knowledge. The primary tool for the program is a stellite system with numerous remote sensors designed specifically for observing important features of snow, sea ice, and the ice sheets of Greenland and Antarctica tic regions between ice in its many forms and world climate are

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irradiation, Aerial surveys, Remote sensing, Airborne equipment, United States.

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sensing, Snow survey tools, Aerial surveys.

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Iceberg towing, Ice shelves, Economic development. The author sketches the uses to which man has put natural ice during the last century and this. Norway exported net to Britain to preserve flounder, haibut, and salmon, other glacier (see exporting sentures were tried, some succeeded, others did not, and as ice manufacturing became cheaper than glacier harvesting, exporting eventually ceased. During WWII the concept of an aircraft carrier made of ice was developed to the prototype stage, from this experiment emerged the material still in use pykitet, a combination of water and sawdust which, when frozen, behaves like concrete. Currently, exploitation trends toward towing bergs from the vast Antarctic resources to South America and the Middle East. As an alternative to towing, a possible water harvesting system could be submersible pumps and pipelines to tap the fresh water beneath the shelf ice. It is estimated that such a system could produce forty cubic klometers of fresh water annually from George VI Ice Shelf.

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Cryogenic soils, Soil formation, Landscape types, Taiga, Soil profiles, Snow cover effect.

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Tundra, Soil profiles, Active layer.

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Origin of second humus zones in sod-podsol soils of West Siberia. ¡O genezise vtorykh gumusovykh gorizontov v dernovo-podzolistykh pochvakh Zapadnot Sibirn.

Karayaeya, N.A., Spetsifika pochyoobrazovanna Sabiri (Characteristics of soil formation in Siberia) edited by R.V. Kovalev, Novosibirsk, Nauka, 1979, p.60-68, In Russian. 13 refs.

Cryogenic soils, Podsol, Soil formation, Soil chemis-

try, Soil profiles, Taiga.

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Nechaeva, E.G., Spetsifika pochvoobrazovaniia v Sibiri (Characteristics of soil formation in Siberia) edsited by R.V. Kovalev, Novosibirsk, Nauka, 1979, p.79-87, In Russian 20 refs. Cryogenic soils, Taiga, Landscape types, Soil forma-

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freezing, Permafrost hydrology, Thermal regime.

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stroitel'stvo<sub>1</sub>.

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Site surveys, Mapping, Engineering geology, Space-borne photography, Slope processes, Geocryology, Permafrost hydrology, Soil erosion, Cryogenic soils, Baykai Amur railroad.

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Slope processes, Soil mechanics, Rock streams.

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Slope processes, Avalanches, Snowmelt, Mudflows.

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ized simulation.

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Reflection, Solar radiation, Pack ice, Mountains. Monthly mean surface albedo for the full spectral range of incoming solar radiation and average atmospheric properties is estimated for the period Apr. 1. 1974-Mar. 31, 1975. It can be considered approximately representative of average conditions in the last decade. The monthly global surface albedo, average without weighting for radiation income, ranges from 15.7% in December, with an annual average of 17.0%. This is higher than most previously published figures. The difference is partly due to the averaging method, and partly to more accurate satellite based information on snow and ice covers. Parameterized albedo values of characteristic surface types were compiled from published references. Estimates are zonally averaged separately for land and ocean in 2 deg latitudinal belts. (Auth.)

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Fumihiko, N., et al. Tokyo. National Institute of Polar Research Memoirs, 1979, Special issue No.15,

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Ice shelves, Glacier flow, Remote sensing, LAND-

SAT, Antarctica—Filchner Ice Shelf, Antarctica—Ronne Ice Shelf.

Ronne fee Shelf.

Satellite images of Ronne and Filchner ice shelves show a variety of surface features, many of which are believed to indicate flow lines in the ice. Sufficient imagery is now available from Landsat satellites to plot these features from mosaics. Although some of the features have been recognized from aircraft, it was not until an overall view was provided that the true extent of the features and their relationship to the major ice streams became apparent. Using this evidence together with published ice thickness data from radio echo and seismic sounding, flow patterns within the ice shelves and tributary glaciers can be inferred. Flow lines show that the major input to Filchner lee Shelf is from Slessor and Recovery glaciers, while Support Force Glacier contributes less than one third. On Ronne Ice Shelf, flow lines indicate that most of the ice comes from Foundation lee Stream in the east and from Evans Ice Stream and three other ice streams in the west; there is a large area of relatively slow moving ice in between. Ice thickness and velocity data are now needed in order to quantify the ice discharge. However, satellite imagery can be used to estimate the relative importance of glaciers feeding ice shelves and to delineate the flow patterns within them. (Auth.)

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Radioactive isotopes, Electric power.

The feasibility of using radioisotope power for small polar stational fuel is discussed and the cost of various radioisotopes

34-2812 Proceedings.

Symposium on Dynamics of Large Ice Masses, Ottawa, Aug. 1978, Journal of glaciology, 1979, 24(90), 520p., In English with French and German summaries. Includes subject and author indexes: abstracts of papers presented at the symposium but not published in full in this volume; abstracts of papers accepted for the symposium but not presented; and a general discussion which constituted the final session. For individual papers see: 34-2813 through 34-2845, or F-23178 through F-23199.

Meetings, Ice sheets, Ice shelves, Floating ice.

Meetings, Ice sheets, Ice shelves, Floating ice. The symposium convened in Ottawa from August 21-25, 1978, organized by the International Glacological Society, it was attended by nearly 120 scientists representing 11 different countries. The 35 papers included in this volume deal with a wide variety of topics including; glaciers and historical glacology; ice sheet and sea ice dynamics; various ice sheet sounding techniques; mass balance, remote sensing, ice dating through cores, thickness measurement; and various modeling techniques. Many of the papers result from work done in Antarctica, especially the Ross Ice Sheff. cially the Ross Ice Shelf

34-2813

Ice flow along the Byrd Station strain network, Antarctica.

Whillans, I.M., Journal of glaciology, 1979, 24(90), p.15-28, In English with French and German summar-

Ice sheets, Ice creep, Strains, Ice mechanics, Models, Antarctics—Byrd Station.

Antarctica—Byrd Station.

The flow of the Antarctic ice sheet near Byrd Station is modeled using surface net accumulation-rate data, surface strain-rate data, and core-hole tilting results. The model empirically allows for the progressive development of ice fabric and for values of the vertical strain-rate nearer to zero at depth, and adjusts the strain-rates according to the effect of the climatic warming at the beginning of the Holocene. The validity of the model is supported by the agreements between calculated bed form and that measured by radar sounding, and between calculated and measured present-day ice-sheet thinning-rates. The ice was about 200 m thicker before thinning. The depth-age relationship for the Byrd Station ice core shows that the climatic change represented by the oxygen isotopic ratio of the ice began some 5,000 years sooner than in north Greenland but ended at about the same time. (Auth.)

Stability of temperate ice caps and ice sheets resting on beds of deformable sediment.

Boulton, G.S., et al. Journal of glaciology, 1979, 24(90), p.29-43, In English with French and German summaries. 28 refs.

Jones, A.S. Glacier flow, Glacier beds, Stability, Deformation.

34.2815

Thinning of the ice sheet in Mizuho Plateau, East

Naruse, R., Journal of glaciology, 1979, 24(90), p. 45-52. In English with French and German summaries. 31 refs.

Ice sheets, Ice cover thickness, Snow accumulation, Antarctica—Mizuho Plateau.

Antarctica—Mizuno Piateau.

Surveys of a triangulation chain 2:0 km in length were carried out in Dec. 1969 and Dec. 1973-Jan. 1974 along the surface contour lines from 2,250 m to 2,600 m in Mizuho Plateau. Horizontal velocities were obtained as small values near the Yamato Mountains, while they had maxima of more than 20 m/a around 39E 72S in the drainage of the Shirase Glacier.

Submergence velocities showed large values in the region along 728 from 39E castward to 43E. The amount of snow accumulation there, of average thickness 0.2 m/a, was not enough to compensate for the deficit of the ice mass caused by the submergence flow. It follows that the ice sheet was thinning there. It is suggested that the ice sheet of Miruho Plateau is in an unstable condition as a whole. (Auth.)

34-2816

Basal sliding of a thinning ice sheet, Mizuho Plateau, East Antarctica.

Mae, S., Journal of glaciology, 1979, 24(90), p.53-61, In English with French and German summaries. 20

Ice sheets, Basal sliding, Ice cover thickness, Antarctica-Mizuho Plateau.

tica—Mizuho Plateau.

The Japanese Antaretic Research Expedition observed the thinning of the ice sheet, about 70 cm/year, in Mizuho Plateau. The thinning observed is analyzed using an equation of mass continuity. The result of the analysis indicates that the thinning is predominantly caused by the basal sliding and the basal sliding velocity is about 10 m/year. This sliding velocity is compared with the basal sliding velocity obtained by the calculation of the velocity due to internal deformation of the ice sheet. (Auth.)

34 2617

Characteristics of ice flow in Marie Byrd Land, An-

tarctica. Ruse (1) Academy Jacobings 1979 24(30) p.o.s-75, In English with French and German summaries.

Ice sheets, Glacier flow, Radio echo soundings, Antarctica-Marie Byrd Land.

tarctica—Marie Byrd Land.

Extensive radio echo-sounding has mapped the part of West Antarctica between Byrd Station, the Whitmore Mountains, the Transantarctic Mountains, and the Ross Ice Shelf. The ice sheet in this area is dominated by five major sub-parallel ice streams (A-E), which are up to 100 km wide and extend inland from the ground line of the Ross Ice Shelf for about 400 km. Their positions have been determined by crevassing seen on radio echo-sounding records, trimetrogon photographs, and Landsat imagery. The ice streams are characterized by their lat transverse cross-sections, while the intervening ice sheet exhibits domes and ridges. Ice flow lines are defined from the ice-surface contour pattern and the trend of the ice streams. It is apparent from this work that the flow line passing through Byrd Station joins ice stream D. The bedrock of the area is relatively smooth near the Ross Ice Shelf, becoming rougher near Byrd Station and especially so near the Whitmore Mountains. Bedrock troughs, which control the positions of the ice streams are believed to have a tectionic origin. In this paper the role of the ice streams in the glaciological regime of West Antarctica is investigated from radio-echo data and estimates of balance velocity, basal shear stress, and basal temperatures. (Auth.) (Auth.)

34-2818

Measured velocities of interior East Antarctica and the state of mass balance within the I.A.G.P. area. Young, N.W., Journal of glaciology, 1979, 24(90), p.77-87, In English with French and German summaries. 20 refs.

Snow accumulation, Ice sheets, Mass balance, Antarctica-Fast Anterctica.

Recent measurements of accumulation and ice velocity made in the interior of East Antarctica indicate that a large sector between 80E and 135E and north of 80S has close to a zero net mass budget. This sector is within the study area for the International Antarctic Gaicological Project (1.A.G.P.) and covers a major portion of the area indicated for projects of special emphasis. Velocity measurements were made at a number of points on a traverse route from Mirray on the coast to Dome "C" in the interior. Accumulation measurements were made along this and other traverse routes, extending as far as Vostok by a number of methods. These included stake, stratigraphic, isotopic, and total beta-decay observations. The better accumulation data have allowed a review of the total mass input to be made. The true mass budget has been estimated by comparing velocities along the traverse routes and on a number of the outlet glaciers. For this purpose the area was divided into a number of drainage basins according to outlet at the coast. The area of about 1 million sq km and 150 Gt/a flux input is drained primarily by three glacier systems of which the Totten accounts for 40% of the flux from 55% of the area; the Vanderford 20% from 15%; and the Scott/Denman 20% from 20%. (Auth.) 34-2819

Results from the I.A.G.P. flow-line study inland of Casey, Wilkes Land, Antarctica.
Budd, W.F., et al, *Journal of glaciology*, 1979, 24(90), p.89-101, In English with French and German summaries. 28 refs. Young, N.W.

Young, N.W. Ice sheets, Flow rate, Ice cover thickness, Ice mechanics, Antarctica—Wilkes Land.
In order to determine accurate velocities of the sheet in the interior of Antarctica, approximately along a flow lieg, a dealed trilateration net was established in 1973 from the summit of Law Dome (100 km inland) to about 250 km south near the 2,00 m contour. The net consisted of a double line of markers approximately 10 km apart with all sides and diagonals of the quadrilaterals measured with tellurometers. In addition, satellite doppler survey positions and astronomical azimuths were determined at about 50 km intervals to control the net on the large scale. Other measurements carried out en route in-

cluded continuous barometric levelling, radio echo-sounding, gravimetry, accumulation, and surface sampling. The route was close to an earlier traverse route which reached Vostok in was close to an earlier traverse route which reached Vostok in 1962 and along which other data, including snow-surface temperatures and temperature-depth gradients, were determined. The trilateration net was re-surveyed in 1975, allowing velocities and strain-rates to be determined. The results indicate that the ice sheet is close to balance in this region. Therefore, the measured velocities were used together with "balance velocities", further inland, to carry out a modelling study of a flow line, to derive particle trajectories, ages, temperature profiles, and "dynamics velocities", from a flow law. The results provide further insight into the dynamics and flow properties of the ice sheet. (Auth.) sheet (Auth)

34-2820

Ice flow along an I.A.G.P. flow line and interpretation of data from an ice core in Terre Adélie, Antarctica. Raynaud, D., et al, Journal of glaciology, 1979, 24(90), p.103-115. In English with French and German sum-

maries. 24 refs. Lorius, C., Budd, W.F., Young, N.W.

Ice sheets, Ice cores, Drill core analysis, Climatic changes, Antarctica—Adélie Coast.

changes, Antarctica—Adelie Coast.

An ace core has been obtained to the bedrock about 300 m deep in Terra Adelie S km inhaed from the most. Stable rootings and gas content have been measured over the length of the core. The results have been interpreted in terms of the temperature and elevation of origin of the tee further inland on the ice sheet the first of the coast and account of the coast and account of the coast and account of the coast has been modelled to determine the ages and particle trajectories of the ice for present conditions. It has been found that the upper isotope and gas-content values in the core can be matched with the resent regime, using a base for ice flow above the present bed which is suggested by moraine in the ice core. The ice in the layer from the 200 m depth, where the age is apparently more than 5,000 years, to the 250 m depth, appears to have originated from conditions which differ substantially from those existing on the present inland ice-sheet surface. The results give an indication of a colder climate and greater ice-sheet thickness in the past. (Auth.)

34-2821

34-2821

Ice-sheet flow properties derived from bore-hole shear measurements combined with ice-core studies. Russell-Head, D.S., et al, *Journal of glaciology*, 1979, 24(90), p.117-130, in English with French and German summaries. 28 refs.

Ice sheets, Ice mechanics, Ice structure, Ice deforma-tion, Antarctica—Law Dome.

ton, Antarctica—Law Dome.

Samples of a Law Dome ice core were subjected to simple shear at temperatures and deviatoric stresses which match the in situ conditions of the ice sheet. Similar studies of randomly-oriented laboratory-made polycrystalline ice were undertaken. Long-term tests, lasting for up to two years, were required to determine minimum strain-rates. The flow law for the anisotropic ice was thus determined as a function of that for the isotropic ice together with a measure of c-axis fabric strength perpendicular to the shear plane. Core studies indicate that the upper part of the ice sheet has a polycrystalline structure appropriate to the surface longitudinal stress. Deeper in the core a strong concentration of near-vertical c-axes develops lec having very large crystals with multiple maxime fabrics was found in the lower quarter of the ice thickness. Shear measurements in the bore hole indicate the existence of high strain-rates in the zone of vertical c-axes, and of lower shear-rates below that level. The low values of shear-rates in the basal region region cannot be explained in terms of crystallographic changes alone, and therefore it is inferred that the shear stress decreases in this layer—a result which also provides a possible explanation in this layer—a result which also provides a possible explanation for the development of the observed basal crystal structure.

34-2822

Calculations of velocity and temperature in a polar

glacier using the finite-element method.
Hooke, R.L., et al, Journal of glaciology, 1979, 24(90), p.131-146, In English with French and German summaries. 24 refs.
Raymond, C.F., Hotchkiss, R.L., Gustafson, R.J. Ice sheets, Ice mechanics, Flow measurement, Ice

temperature.

34-2823

Relationship of ultrasonic velocities to c-axis fabrics and relaxation characteristics of ice cores from Byrd Station, Antarctica.

Gow, A.J., et al, Journal of glaciology, 1979, 24(90), MP 1282, p.147-153. In English with French and German summaries. 12 refs.

Kohnen, H. Ice sheets, Ice mechanics, Drill core analysis, Relaxation (mechanics), Ultrasonic tests, Antarctica-Byrd

Deep cores from Byrd Station were used to calibrate an ultra-sonic technique of evaluating crystal anisotropy in the antarctic ice sheet. Velocities measured parallel and perpendicular to the vertical axis of the cores yielded data in excellent agreement with the observed c-axis fabric profile and with the in-situ P-wave velocity profile measured parallel to the bore-hole axis by Bentley. Velocity differences in excess of 140 m/s for cores from below 1,300 m attest to the tight clustering of c axes of

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crystals about the vertical especially in the zone 1,300-1,800 m. A small but significant decline in vertical velocity with ageing of the core, as deduced from Bentley's down-hole data, is attributed to the formation of oriented cracks that occur in the ice cores as they relay from environmental stresses. This investigation of cores from the 2,164 in thick ice sheet at Byid Station establishes the ultrasonic technique as a viable method of monitoring relayation characteristics of drilled cores and for determining the gross fronds of class orientation in ice sheets. The Bird Station data, in conjunction with Barkov's investigation of deep cores from Vostok East Antarctica, also indicate that crystal amsofropy in the antarctic rice sheet is dominated by a clustering of classic about a vertical symmetry axis. (Auth.) crystals about the vertical 'especially in the zone 1,300-1,800 m.

34-2824

Margin of the Greenland ice sheet at Isua.
Colbeck, S.C., et al. Journal of glaciology, 1979, 24(90). MP 1281, p.155-165, In English with French and German summaries. 7 refs. Gow, AJ

Ice sheets, Ice edge, Drill core analysis, Ice structure.

Ice sheets, Ice edge. Drill core analysis, Ice structure. Field studies at a particular place at the margin of the Greenland ice sheet have provided information about the ice sheet. The temperatures were measured in five drill holes, two of which reached dhe unfroren area of basal melting. Surface water entired these two bore holes, reaching the base in one, but remaining 59 in above the base in the other. The existence of this water conduit or fracture at 240 in depth, the calculated temperature profiles, and the local bedrock configuration suggest arrange of stationary ice overridden by the ice sheet. This situation suggests creep rupture at depth in the ice sheet. Ice-labric analysis made above 240 in depth shows patterns similar to fibrics cleswhere near the margin in zones of low deviators stress. Unfortunately, no cores were obtained below that depth where stationary ice may exist.

34-2825

34-2825

Dynamics of marine ice sheets.

Fhomas, R.H., Journal of glaciology, 1979, 24(90), p.167-177, in English with French and German summaries. 22 refs

Ice sheets. Dynamic properties, Ice shelves, Mass balance.

Marine (ce sheets rest on land that, for the most part, is below sea-level. At the grounding line there is a transition from reshere dynamics to ree-shelf dynamics, and the creep-thinning rate in this region is very sensitive to sea depth, rising sea-level. rate in this region is very sensitive to sea depth, rising sea-level causes increased dimning-rates and grounding-line retreat, but failing sea-level has the reverse effect. If the bedrock slopes down rowards the centre of the ice sheet, there may be only two whalle modes—a freely-floating ice shell or a marine ree sheet that extends to the edge of the continental shelf. The only current example of marine ice sheets is the West Antarctic ice sheet. This is buttessed by the Ross and Ronne Ice Shelves, and if climatic warning were to prohibit the existence of these ice shelves, then the ice sheet now be advancing into parts of the Ross Ice Shelf. Such advance, however, would not ensure the security of the ice sheet since ice streams that drain to the north appear to flow directly into the sea with little or no ice shelf to butters them. If these ice streams do not flow over a sufficiently high bedrock still, then they provide the most likely avenues for ice-sheet retreat. (Auth. mod.) 34-2826

34-2826

Effect of crystal size and dispersed-solid inclusions on

the activation energy for creep of ice.

Baker, R.W., et al, *Journal of glaciology*, 1979, 24(90), p 179-194, In English with French and German summaries. 41 refs Gerberich, W.W.

Ice crystal size, Ice creep, Temperature effects. 34-2827

Role of shear heating in the dynamics of large ice masses.

Yuen, D.A., et al, Journal of glaciology, 1979, 24(90), p.195-212, In English with French and German summaries 25 refs. Schubert, G.

Ice sheets, Ice creep, Dynamic properties. Shear stress, Heating, Ice deformation.

34-2828

Catastrophe model of the paleoclimate.
MacAyeal, D.R. Journal of glaciology, 1979, 24(90), p.245-257, In English with French and Russian summaries. 22 refs.

Ice sheets, Dynamic properties, Climatic changes, Ice models.

34-2829

Formation, flow, and disintegration of ice shelves Robin G de Q., Journal of glaciology, 1979, 24(90), p.259-271, In English with French and German summaries 33 refs

Ice shelves, Ice formation, Ice creep, Ocean currents.

lee shelves, Ice formation, Ice creep, Ocean currents, her shelves may develop either by continued thickening of sea ice that is held last to the shore, or by the seaward extension of inland ice. For both processes, as well as for an understanding of ablation and of accumulation at the bottom surface of ice shelves, we need to understand melting and freezing processes in relation to salinity, temperature, and pressure. Consideration of these factors shows that basal melting beneath the thicker parts of ice shelves in much greater than is generally appreciated. This could be sufficient to bring the estimated mass balance of Antarctica into approximate equilibrium. It

appears that most antarctic ice shelves are dependent on the appears that most antarets rec shelves are dependent on the supply of inland rec for their continued existence. However, the thick layer of sea ice beneath the Amery Ice Shelf is readily explained in terms of sub-ice water circulation. I ransport of heat and mass by water motion beneath rec shelves has the potential to change ice thicknesses by simila, amounts to that caused by internal deformation of the ice shelf. Bottom freezing due to thermal conduction throughout the ice shelf is of minor importance. (Auth.)

Thomas, R.H., Journal of glaciology, 1979, 24(90), p 273-286, In English with French and German summaries. 46 refs.

Ice sheets, Ice shelves, Calving.

The sheets, Ice shelves, Calving.

Ice shelves form where ice flows off the antarctic ice sheet onto the sea to produce rather flat slabs of floating ice which, for the theoretican, are the simplest of all large masses. Boundary conditions are well defined, conditions change very slowly over distances that are large compared with ice thickness, and horizontal velocities are independent of depth. Unconfined ice shelves can be used as giant creep machines to investigate the cellow law at low stresses. Further inland, where movement is hampered by obstructions such as grounded ice rises and by shear between the ice shelf and its sides, the ice shelf transitis a back-pressure which tends to restrict drainage from the ice sheets that feed it. Wastage from ice shelves is principally by calving and by bottom melting. There has been no direct measurement of bottom-melting rates, but indirect evidence suggests that, near the seaward edges of ice shelves, bottom-melting rates may exceed one meter per year, with significant melting within about 100 km of the ice front. Further inland there may be bottom freezing, and analysis of cores taken from the Amery Ice Shelf indicate that bottom-freezing rates average 0.5 m a over a distance of 200 km. Such high freezing-rates are probably exceptional, and, beneath the Ross Ice Shelf, freezing appears to be insignificant even at a distance of 400 km from the ce front. (Auth mod.)

34-2831

Ice-thickness patterns and the dynamics of the Ross

34-2831

1ce-thickness patterns and the dynamics of the Ross Ice Shelf, Antarctica.

Bentley, C.R., et al. Journal of glaciology. 1979, 24(90), p.287-294, In English with French and German summaries. 11 refs.

Clough, J.W., Jezek, K.C., Shabtaie, S.
Ice shelves, Ice cover thickness, Flow measurement, Antarctica—Ross Ice Shelf.

As part of the Ross Ice Shelf Geophysical and Glaciological Survey, a detailed map of ice thickness has been produced from airborne radar measurements closely tied to the network of survey stations on the ice-shelf surface. The map, drawn with a 20 m contour interval, reveals a highly complex pattern of thickness variations reflecting presumably, at least in part, complex ice-shelf dynamics. Many features of the thickness variation pattern appear to be associated with zones of grounded ice, but not all. Features of interest include many ice thickness minima, with closures up to 120 m, a narrow, greatly elongated ridge-trough system 450 km or more in length; a few ice thickness maxima, steep regional gradients of 10 m km in freely floating ice; highly contorted contours suggesting a large-scale "turbulence", and at least two remarkable step-like changes in ite dynamic system, so that the ice shelf as a whole suggests a state of rather rapid change. Flow-bands constructed on the basis of the strengths of the echo from the ice-water interface clearly delineate the outlow from the main East Antarctic outlet glaciers in the grid eastern part of the shelf. (Auth mod.) 34-2832.

Dynamics of the Ross Ice Shelf revealed by radio echo-sounding.

Neal, C.S., Journal of glaciology, 1979, 24(90), p.295-307, In English with French and German summaries. 19 refs.

Ice shelves. Dynamic properties. Radio echo soundings, Antarctica-Ross Ice Shelf.

ings, Antarctica—Koss Tee Sheff.

Radio-echo data have yielded information on the dynamics of the Ross Ice Sheff. Distinctive features present on the radio-ceho records have been used to delineate several flow lines on the ice sheff. Measurement of the power returned from the ice-water interface has revealed regional variations in the r.i. dielectric loss of Ross Ice Sheff ice. These variations are used to indicate zones of bottom melting and freezing. (Auth.)

Lateral density differences from seismic measurements at a site on the Ross Ice Shelf, Antarctica. Kirchner, J.F., et al, *Journal of glaciology*, 1979, 24(90), p.309-312, In English with French and Ger-

man summaries. 6 refs. Bentley, C.R., Robertson, J.D.

Seismic surveys, Ice shelves, Antarctica-Ross Ice

Seismic compressional-wave data from short refraction shoot-ing carried out during the 1974-75 and 1976-77 seasons at 1-9, the site of the Ross lee Shelf Drilling Project, have been com-pared Significant dissimilarities were found to exist between pared. Significant dissimilarities were found to exist between the two sets of data. The measurements were made at locations about 2 km apart, with three unreversed profiles 60 degapart recorded during the 1976-77 season and one unreversed profile during the 1974-75 season. The resulting velocity-depth profiles, and hence the derived density-depth profiles, differ by as much as 8%. The density difference is believed to

be due to the passage of the ice through the high-stress system associated with the interaction between lee Stream B. flowing in from the West Antarctic ree sheet, and the Ross fee Shelf. A reversed refraction profile carried out at station B.C. about 30 km upstream, shows evidence of dipping layers that may be similarly caused. (Auth. mod.)

Seismic short-refraction studies on the Ross Ice Shelf, Antarctica.

Kirchner, J.F., et al, Journal of glaciology, 1979, 24(90), p.313-319. In English with French and German summaries 15 refs

Bentley, C.R

Seismic surveys, Ice shelves, Antarctica-Ross Ice

Shelf.

Seisme short-refraction studies were carried out at five stations on the Ross Ice Shelf during the 1976-77 summer season as part of the comprehensive Ross Ice Shelf Geophysical and Glaciological Survey. Measurements of the velocities of compressional waves were made at each location. Compressional wave velocities were measured along inore than one azimuth at three sites, and shear wave velocities both components) at two Travel-time curves were fitted to an exponential expression by means of a non-linear least-squares regression technique. The errors in the apparent velocities are estimated to be about 50 m s at short distances, diminishing to about 10 m s near the ends of the profiles. Compressional-wave velocities show only slight variations with azimuth and only over certain depth intervals. Showing that constant-velocity surfaces are essentially horizontal. Shear-wave velocities, however, exhibit large variations according to azimuth and polarization, indicating that transverse isotropy is violated at least in the upper 30-40 m of the ice shelf. It is believed that the amsotropy is caused by structural details in the firip perhaps modified by preferred crystal orientation and that it may arise at least partly from anisotropic stresses in the ice shelf. (Auth.)

Electromagnetic sounding of bottom crevasses on the

Best Ice Shelf, Antarctica.

Jezek, K.C., et al. Journal of glaciology, 1979, 24(90), p 321-330, In English with French and German summaries. 8 refs.

Bentley, C.R., Clough, J.W.

Electromagnetic prospecting, Crevasses, Bottom topography, Ice shelves, Antarctica—Ross Ice Shelf. the tromagnetic prospecting, crevasses, bottom topography, Ice shelves, Antarctica—Ross Ice Shelf. During the 1976-77 season of the Ross Ice Shelf Geophysical and Glaciological Survey, a series of vertical electromagnetic sounding profiles of subsurface features was completed at station 1-9. The survey comprised three five-kilometer northwest-southeast profiles separated by one kilometer and six two-kilometer northeast-southwest profiles, and was carried out on the surface using 35 MHz and 50 MHz radar systems. Folded-dipole antennae were used and oriented to detect reflectors both along and perpendicular to the profile path. This was done to facilitate the interpretation of the data, which indicated a complex system of bottom crevasses. Measurements of the positions, heights, and shapes of these crevasses showed at least two sets of crevasses varying in both strike and size. The larger crevasses, about 120 m high and oriented more or less normal to the flow direction are probably associated with the movement of the stream B across the grounding line between the West Antarctic ice sheet and the Ross lee Shelf. A satisfactory explanation for the secondary set of crevasses, about 60 m high and forming an angle of 60 deg with the first set, has not yet been found. (Auth.)

34-2836

Investigation of bottom mass-balance rates by electrical resistivity soundings on the Ross Ice Shelf, An-

Shabtaic. S., et al. Journal of glaciology, 1979, 24(90), p.331-343, In English with French and German summaries. 21 refs.
Bentley, C.R.

Ice shelves, Mass balance, Ice bottom surface, Ice temperature, Electrical resistivity, Antarctica—Ross

Ice Shelf.
Electrical resistivity sounding, using the four-electrode Schlumberger array, has been carried out at 11 locations on the Ross Ice Shelf. The apparent resistivity curves generally show four characteristic zones. The first, at distances from 1 to 10 m, reflects the near-surface zone of seasonal temperature changes and inhomogeneities. The second zone, from 10 m to 100 m, reflects primarily the uncreasing density with depth in the upper 50 m of the ice shelf, modified, in some locations, by temperature variations. The third zone, from 100 m to a distance roughly equal to the ice thickness, is affected principally by the temperature gradient in the solid ice. In the fourth zone, at distances greater than approximately twice the ice thickness, the apparent resistivity usually decreases rapidly with distance, owing to the highly conductive sea-water beneath the ice shelf. At some stations associated with ice streams and outlet glaciers, however, an increase at large spacings indicates much more resistive basal ice. Using data from seven locations on the grid eastern half of the shelf that do not show obvious evidence of a basal resistive zone, including temperatures to 100 m at two castern nail of the shelf that do not show obvious evidence of a basal resistive zone, including temperatures to 100 m at two of the sites, the mass-balance rate at the bottom of the ice is estimated to be within a few tenths of a meter per year of zero at distances between go and 530 km from the ice front, assuming steady-state condition over most of the ice shelf. (Authmod.)

A Comment of the Comm

Dating of Ross Ice Shelf cores by chemical analysis. Herron, M.M., et al, Journal of glaciology, 1979, 24(90), p.345-357, In English with French and German summaries. 34 refs. Langway, C.C., Jr.

Ice shelves, Ice cores, Chemical analysis, Ice dating, Antarctica-Ross Ice Shelf.

Antarctica—Ross Ice Shelf.

Seasonal variations in sodium concentrations have been measured on surface-pit snow samples and on firn and ice core samples from the Ross Ice Shelf. Antarctica—The predominant source for the Na is sea salt, indicated by greater concentration levels at seaward sites. Small Al concentrations show that the input of continental dust is comparable to that at inland antarctic locations, and that dust contributes only a negligibly small fraction of the Na on the shelf. Maximum Na concentrations occur in the winter or early spring, as is the case for Greenland ice. The annual accumulation rate at 1-9, determined by counting Na concentration peaks with depth, is 90 kg/sq m/yr, in agreement with rates determined radiometrically. Annual cycles in Na concentration are also detectable at depth in the 1-9 (ice core. It is suggested that Na concentration is a useful diagnostic criterion for distinguishing between East Antarctic ice. West Antarctic ice, and ice that fell as snow on the shelf itself. The transition between snow that is chemically characteristic of the ice-shelf regime to snow of an inland regime is expected to occur near the 500 m elevation contour. This position is up to 200 km inland of the grounding line. (Auth. mod.) 34-2838

Modeling sea-ice features and processes. Rothrock, D.A., Journal of glaciology, 1979, 24(90), p.359-375, In English with French and German sum-69 refs.

Sea ice, Floating ice, Drift, Ice floes, Ice cover thickness, Models.

34-2839

Mechanical energy considerations in sea-ice dynam-

Coon, M.D., et al, Journal of glaciology, 1979, 24(90), p. 377-389, In English with French and German summaries. 15 refs. Pritchard, R.S.

Sea ice. Dynamic properties. Mathematical models. Ice mechanics, Ice physics.

34-2840

Mass-balance aspects of Weddell Sea pack-ice. Ackley, S.F., Journal of glaciology, 1979, 24(90), MP 1286, p.391-405, In English with French and German

summaries. 20 refs.

Sea ice distribution, Mass balance, Ice deformation,

Summaries. 20 refs.
Sea ice distribution, Mass balance, Ice deformation,
Salinity, Weddell Sea.

The Weddell Sea pack ice undergoes several unique advanceretreat characteristics related to the clockwise transport in the
Weddell Gyre, the physical setting for the pack ice, and the free
boundary with the oceans to the north. From satellite-derived
ice charts, the annual cycle of the pack ice advance and retreat
is depicted. The Weddell pack advance is characterized by a
strong east-moving component as well as the north advance
seen in other regions such as East Antarctica. Physical characteristics of the pack ice at the summer linimum ice edge are
presented. Indications are that deformation is a significant
component of the ice accumulation, deformed ice accounting
for c. 15 to 20% of the area covered in the year-round pack.
Ablation characteristics are inferred from observations made
during field work and from satellite imagery. These observasitions indicate that surface-melt ablation typically seen on Arctic
pack is not seen on the Weddell pack inside the summer edge.
Using the physical-property data and transport inferred from
ship and iceberg drifts, a new annual ice accumulation > 3 m is
inferred over the continental shelf in the South compared to <2
m previously estimated. The implication is that salt flux into
the ocean over the shelf may be significantly larger, thereby
increasing the production of Western Shelf Water, a component
of Antarctic Bottom Water. (Auth.)

34-2841

Neralla, V.R., et al, Journal of glaciology, 1979, 24(90), p.407-414, In English with French and German summaries. 12 refs
Liu, W.S.

Sea ice distribution, Ice floes, Ice models, Ice forecasting.

34-2842

Satellite studies of fresh-water ice movement on Lake Erie.

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Administrative and research activities of the Antarctic Division are discussed. The Division continued to provide support for the Australian National Antarctic Research Expeditions and to undertake its own antarctic and Australia based research in and create its own antarctic and system asset research in glacinlegs, upper-atmospheric physics, cosmic rays, hology and medicine. Programs in these areas are reviewed and accomplishments in instrumentation, engineering, construction and logistics described

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Glacier flow, Antarctica—Taylor Glacier.

Gravity observations from the Taylor glacier region are reported. Regional Bouguer anomalies were calculated for bedrock stations from Lake Fryxell to the Upper Taylor Glacier,
and reach a maximum of -139 mgal. Residual Bouguer anomaties were calculated along six lines transverse to the ice flow
to determine tee thickness, anomalies of up to -62 mgal were
obtained. For four of the lines ice thickness was determined orialized for four of the times leef intensives was determined assuming the glacier was underfain by bedrock of density 2.80 Mg cu in for the other two lines, ice thickness from radio echo-sounding allowed interpretation to include a subglacial sediment layer. The largest anomaly implies an ice thickness of 1100 in underfain by 600 in of sediment, and the ice becomes progressively thinner towards the snout. The shape of the inprogressively thinner towards the shout. The shape of the in-ferred ice-bedrock interface across the glacter varies from pro-file to profile, but is generally U-shaped. (Auth.)

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Pile structures, Foundations, Permafrost beneath structures, Permafrost control, Pile driving, Boreholes, Drilling, Thawing

34-3023

Technology of open pit mining. (Tekhnologiia otkrytol razrabotki poleznykh iskopaemykh).
Medvedev, K. D., ed. Frunze, 1979, 164p., in Russian. For selected papers see 34-3024 through 34-3026.
Mining, Transportation, Explosives, Boreholes, Drilling, Blasting, Permafrost.

34-3024

Effectiveness of container transportation systems under the Far North conditions. [Effektivnost' vne-dreniia konteinernoi transportnoi sistemy v usloviiakh

Rainego Severa,
Bogoliubova, O.I., et al, Tekhnologiia otkrytoi razrabotki poleznykh iskopaemykh (Technology of open
pit mining) edited by K.D. Medvedev, Frunze, 1979, p.96-101, In Russian. 4 refs.

Transportation, Cargo, Mining.

34-3025

Container delivery of explosives to the Far North mines. (K voprosu konteinernykh postavok vzryv-chatykh veshchesty na gornye predpriiatiia Kraineto

Severaj, Vlasov, V.M., et al, Tekhnologija otkrytot razrabotki poleznykh iskopaemykh (Technology of open pit min-ing) edited by K.D. Medvedev, Frunze, 1979, p.101-104, In Russian 4 refs. Timofeeva, L.V., Bogoliubova, O.I.

Mining, Transportation, Explosives, Blasting, Per-

34-3026

Studying the freezing of water-filled blasting holes drilled in permafrost. (Issledovanie protsessa pere-merzania obvodnennykh vzryvnykh skvazhin v

mnogoletnemerzlykh porodakh, Shebarshov, A.A., et al. Tekhnologiia otkrytoj raz-rabotki poleznykh iskopaemykh (Technology of open pit mining) edited by K.D. Medvedev, Frunze, 1979, 127-131, In Russian.

Mining, Boreholes, Blasting, Permafrost.

34-3027

Landscape structure of the forest-swamp zone in Western Siberia. (Landshaftnaia struktura leso-bolot-not zony Zapadnot Sibiri).

Mikhailov, N.I., Zemlevedenie, 1980, v p.40-48, In Russian with English summary N.L., Zemlevedenie, 1980, Vol.13(53).

Taiga, Swamps, Landscape types, Paludification, Landscape development.

34-3028

Possible landscape changes in the Lower Irtysh River

area. (O vozmozhnykh izmeneniiakh landshaftov Nizhnego Priirtysh'ia), Maslennikova, V.V., et al, Zemlevedenie, 1980, Vol.13(53), p.49-53, In Russian with English summary. 2 refs. Skorniakov, V.A., Timashev, I.E., Shcherbakova, L.N

Landscape types, Permafrost hydrology, Taiga, Thermal regime, USSR-Irtysh River.

34-3029

Changes in thermal conditions of landscapes in the monsoon-permafrost mountain taiga of the Central and Lower Amur River area. (Osobennosti landshaftno-termicheskot differentsiatsii mussonno-merzlotnol gornol talgi Srednego i Nizhnego Priamur'ia<sub>1</sub>.
Golubchikov, IU.N., Zemlevedenie, 1980, Vol.13(53), p.62-73, In Russian with English summary. 17 refs.
Mountains, Permafrost distribution, Taiga, Landscape types. Thermal regime, Baykal Amur railroad, Seasonal variations, Vegetation factors.

34-3030

Winter ice jams on the Gunnison River. Burgi, P.H., U.S. Bureau of Reclamation.

ing and Research Center Report, Feb. 1979, REC-

ing and Research Center Report, Feb. 1979, REC-ERC-79-4, 30p., 9 refs. Ice jams, Ice formation, Ice breakup, Reservoirs, River ice, Frazil ice, Climate, United States— Colorado—Gunnison River.

34-3031

Icebreaker experience as a guide to sea ice forces on structures

Gerwick, B.C., Jr., et al, Conference on Civil Engineering in the Oceans. 4th, San Francisco, Sep. 10-12, 1979. Proceedings. Vol.2, New York, American Society of Civil Engineers, 1979. p.622-637, 24 refs. Karp, L.B. DLC TC1505.C6 1979

Offshore structures, Hydraulic structures, Ice loads, Ice push, Ice pressure, Sea ice, Impact strength, Ice mechanics, Icebreakers, Design.

Ice gouge characteristics in the Alaskan Chukchi Sea. Toimil, L., Conference on Civil Engineering in the Oceans, 4th, San Francisco, Sep. 10-12, 1979. Proceedings. Vol.2, New York, American Society of Civil Engineers, 1979, p.863-876, 13 refs. DLC TC1505.C6 1979

Ice scoring, Sea ice, Bottom sediment, Ice erosion, Acoustic measuring instruments, Offshore structures, Sediment transport, Chukchi Sea.

Arctic tundras and polar deserts of Taymyr Peninsula. (Arkticheskie tundry , poliarnyc pustym

Talmyraj. Aleksandrova, V.D., ed., Lennigr. J., Nauka., 1979. 206p. In Russian For selected papers sec 34-3034 through 34-3047. Refs. passim Matveeva, N.V., ed.

Deserts, Tundra, Cryogenic soils, Patterned ground, Laz-Iscape types, Vegetation, Ecosystems, Plant ecology, USSR—Taymyr Peninsula.

34.3034

Structure of vegetational cover in polar deserts of the Taymyr Peninsula (Cape Chelyuskin). [Struktura ras titeľ nogo pokrova poliarnykh pustyn' poluostrova Tar-myr (mys Chehuskin).

Materiesa XX Arkta heskie tundis a noharras, nas marveeva, V. Arkitcheskie tindry ponarny plastyn Taimyra (Arctic tundras and polar deserts of Taymyr Peninsula) edited by V. D. Aleksandrova and N.V. Matveeva, Leningrad, Nauka, 1979, p.3-27. In Russian 1.1 refs

Deserts, Tundra, Cryogenic soils, Patterned ground, Vegetation folia regions 1988 Taylangusula.

34-3035

Microflora in polar desert soils of Cape Chelyuskin. Mikroflora pochy poliarnykh pustyn' mysa Chelius-

Parinkina, O.M. Arkticheskie tundry i poliarnye pus tym Taimyra (Arctic tundras and polar deserts of Lay-myr Peninsula) edited by V.D. Aleksandrova and N.V. Vatveeva, Leningrad, Nauka, 1979, p.28-34, In Russian. 17 refs Desert soils, Soil microbiology, Soil formation, Polar

Vegetation factors, USSR-Chelyuskin Cape.

34-3036

Vascular plants of Cape Chelyuskin. [Sosudistyc ras-

teniia mysa Chehuskinj. Safronova, I.N., Arktieheskie tundry i poliarnye pus sanimas, i. Article tundras and polar deserts of Taymyr Peninsula) edited by V. D. Aleksandrova and N. V. Matveeva, Leningrad, Nauka, 1979, p.50-53, In Russian. 7 refs.

Cryogenic soils, Vegetation, Plant ecology, Tundra, Deserts, Arctic landscapes, USSR—Chelyuskin

34-3037

Musci and Henaticae of Cape Chelyuskin, distostebel'nye i pechenochnye mkhi mysa Cheliuskinj. Blagodatskikh, L.S., ct al, Arkticheskie tundry i poharblagodatskiri, L.S., et al., Arkiteneskie tundry i poilar mye pustyni Talmyra (Arctic tundras and polar deserts of Taymyr Peninsula) edited by V.D. Aleksandrova and N.V. Matveeva, Leningrad, Nauka, 1979, p.54-60. In Russian. 7 refs. Zhukova, A.L., Matveeva, N.V

Deserts, Tundra, Mosses, Arctic landscapes.

34.3038

Ground lichens of Cape Chelyuskin, Napochyunnye

Bishalniki mysa Cheliuskini.

Piin. T.Kh., Arkticheskie tundry i poliarnye pustym Taimyra (Arctic tundras and polar deserts of Taymyr Peninsula) edited by V.D. Aleksandrova and N.V. Matveeva, Leningrad, Nauka, 1979, p.61-73, in Russiani Parks and Polar Parks and N.V. sian. 8 refs.

Deserts, Tundra, Lichens, Arctic landscapes.

34-3039

Some chemical properties of Cap. Chelyuskin soils. Nekotorye khimicheskie svoistva pochy mysa Cheliuskinj.

Chugunova, M.V., Arkticheskie tundry i poliarnye pustyni Talmyra (Arctic tundras and polar deserts of Taymyr Peninsula) edited by V.D. Aleksandrova and N.V. Matveeva, Leningrad, Nauka, 1979, p.74-77, In

Russian. 11 refs.
Cryogenic soils, Soil composition, Soil chemistry.
Arctic landscapes, USSR—Chelyuskin Cape.

34-3040

Vegetation in the vicinity of Marii Pronchishchevov Bay (Northeastern Taymyr Peninsula). [Flora i rastitel nost okrestnostel bukhty Marii Pronchishchevoi

(severo-vostochnyl Tatmyr)<sub>1</sub>.

Matveeva, N.V., Arkticheskie tundry i poliarnye pustyni Taimyra (Arctic tundras and polar deserts of Taymyr Peninsula) edited by V.D. Aleksandrova and N.V. Matveeva, Leningrad, Nauka, 1979, p. 78-109, In Rus-

sian. 24 refs.

Deserts, Tundra, Landscape types, Plant ecology, Alpine landscapes, Biomass, Arctic landscapes, USSR —Taymyr Peninsula.

المنافعة أواران عاماً والمسافعة الماني والأفاق

Microflora of Arctic tundra soils in the northeastern part of the Taymyr Peninsula. (K kharakteristike mikroflory pochy arkticheskikh tundr severo-vostochnot chasti l'aimyraj. Parinkina. Ó M. Arkticheskie tundry i poliarnye pus-

tyni Taimyra (Arctic tundras and polar deserts of Tay-inyr Peninsula) edited by V. D. Aleksandrova and N.V. Matveeva, Leningrad, Nauka, 1979, p. 110-117, In

Russian 4 refs Tundra, Cryogenic soils, Soil microbiology, Arctic

34-3042

Vegetation on specific thermokarst relief in the vicinity of Marii Pronchishchevov Bay (Northeastern Taymyr Peninsula). (Rastitel'nost' baidzharakhov v okrestnostiakh bukhty Marii Pronchishchevol (severovostochnyi Talmyrij,

Samina, O.I. Arkticheskie tundry i poliarnye pustym lamyra (Arctic tundras and polar deserts of Taymyr Peninsula) edited by V.D. Aleksandrova and N.V. Matveeva, Leningrad, Nauka, 1979, p.118-132, In Russian

Thermokarst, Permafrost structure, Ice veins, Cryogenic soils, Vegetation, Arctic landscapes.

Musci and Hepaticae in the vicinity of Marii Pronchishchevoy Bay (Northeastern Taymyr Peninsula), ik flore listostebel nykh i pechenochnykh mkhov okrestnosiet bukhty Marn Pronchishchevol (severovostochnyl Talmyr)<sub>1</sub>. Blagodatskikh, L.S., et al, Arkticheskie tundry i poliar-

nye pustym Faimyra (Arctic tundras and polar deserts Taymyr Peninsula) edited by V.D. Aleksandrova d N.V. Matveeva, Leningrad, Nauka, 1979, p.133-9. In Russian 9 refs. Zhukova, A.L., Matveeva, N.V. Deserts, Tundra, Mosses, Arctic landscapes.

34-3044

Ground lichens in the vicinity of Marii Pronchishchevoy Bay (Northeastern Taymyr Peninsula). ¡Na-pochvennye lishatniki okrestnostel bukhty Marii Pron-chishchevof (Nevero-vostochnyl Talmyr);

Pilin, T.Kh., Arkticheskie tundry i poliarnye pustyni Taimyra (Aietic tundras and polar deserts of Taymyr Peninsula) edited by V.D. Aleksandrova and N.V. Siaveeva, Leningrad, Nauka, 1979, p.140-143, In Russian. 1 ref Lichens, Plant ecology, Ecosystems, Arctic land-

scapes.

Latitudinal variations in the proportions of living vascular plants in Taymyr Peninsula. Shirotnye menenna sootnoshenii zhiznennykh form sosudistykh

Polozova, T.G., Arkticheskie tundry i poliarnye pus-nyin Talmyra (Arctic tundras and polar deserts of Tay-myr Peninsula) edited by V.D. Aleksandrova and N.V. Matveeva, Leningrad, Nauka, 1979, p.154-159, In Russian. 6 refs.

Deserts, Tundra, Cryogenic soils, Vegetation, Plant ecology, Arctic landscapes.

Productivity of Taymyr soil microflora as a criterion of biologic activity. [Produktivnost' mikroflory pochy Talmyra kak kriterif ikh biologicheskof aktivnosti]. Parinkina, O.M., Arkticheskie tundry i poliarnye pustyni Talmyra (Arctic tundras and polar deserts of Taymyr Peninsula) edited by V.D. Aleksandrova and N.V. Matveeva, Leningrad, Nauka, 1979, p.160-165, In

Russian. 12 refs. Tundra, Soil formation, Soil microbiology, Bacteria, Arctic landscapes.

Regularities governing zonal distribution of communities in Taymyr Peninsula. ¿Zakonomernosti zonal'nogo raspredeleniia soobshchesty na Taimyrei. Chernov, IU.I., et al, Arkticheskie tundry i poliarnye Chernov, IU.I., et al, Arkticheskie tundry i poliarnye pustyni Talmyra (Arctic tundras and polar deserts of Taymyr Peninsula) edited by V.D. Aleksandrova and N.V. Matveeva, Leningrad, Nauka, 1979, p.166-200, in Russian. 56 refs. Matveeva, N.V. Deserts, Tundra, Forest tundra, Animals, Plants (botany), Plant ecology, Cryogenic soils, Arctic land-scapes, USSR—Taymyr Peninsula.

34-3048

Environmental assessment of the Alaskan continental shelf, Vol.5, Receptors—Microbiology; Contaminant baselines. Boulder, Colorado, Outer Continental Shelf baselines. Boulder, Colorado, Outer Continental Sheit Environmental Assessment. Program, Oct. 1979, 698p. Principal investigators: annual reports for the year ending March 1979. Numerous refs. passim Oceanography, Microbiology, Marine biology, Oil spills, Water pollution, Bottom sediment, Sea water, Environmental impact, Hydrocarbons.

Environmental assessment of the Alaskan continental shelf, Vol.6, Effects. Boulder, Colorado, Outer Conti-nental Shelf Environmental Assessment Program, Oct 1979, 664p., Principal investigators' annual reports for the year ending March 1979. Numerous refs. passim Oil spills, Marine biology, Environmental impact, Sea water, Ecology, Oceanography, Animals, Water pollution.

34.3050

Environmental assessment of the Alaskan continental shelf, Vol.7, Transport. Boulder, Colorado, Outer Continental Shelf Environmental Assessment Program. Oct. 1979, 560p., Principal investigators' annual reports for the year ending March 1979. Numerous refs. passim. For selected report see 34-3051

Oceanography, Oil spills, Sea ice, Ice mechanics, Ocean currents, Liquid solid interfaces, Marine meteorology, Tides, Data processing.

34.3051

Dynamics of near-shore ice.

Kovacs, A., et al, MP 1291, Environmental assessment of the Alaskan continental shelf, Vol. 7, Transport Principal investigators' annual reports for the year ending March 1979, Boulder, Colorado, Outer Conti-nental Shelf Environmental Assessment Program, Oct 1979, p.181-207, 2 refs. Weeks, W.F.

Ice mechanics, Sea ice, Ice cover thickness, Ice structure, Ice crystals, Pressure ridges, Remote sensing, Fast ice, Pack ice.

34.3052

Environmental assessment of the Alaskan continental shelf, Vol.8, Transport. Boulder, Colorado, Outer Continental Shelf Environmental Assessment Program, Oct. 1979, 588p., Principal investigators' annual reports for the year ending March 1979. Numerous refs. passim. For selected reports see 34-3053 and

Oceanography, Hydrodynamics, Oil spills, Sea ice distribution, Subglacial observations, Petroleum transportation, Ice mechanics, Fast ice, Meteorological factors.

34-3053

Oil pooling under sea ice.

Kovacs, A., MP 1289, Environmental assessment of the Alaskan continental shelf, Vol.8, Transport. Principal investigators' annual reports for the year ending March 1979, Boulder, Colorado, Outer Continental Shelf Environmental Assessment Program, Oct. 1979,

p.310-323, 3 refs.
Oil spills, Sea ice, Ice electrical properties, Bottom ice, Fast ice, Subglacial observations, Ocean currents, Anisotropy, Remote sensing, Echo sounding, Electro-

magnetic properties

The object of the CRREL study is 'o: (a) determine the cause of the significant relief which exists under the fast ice, (b) measure the variations in the relief under fast ice, using electromagnetic echo sounding, (c) determine if the under-ice relief is a series of individual pockets or consists of long rills. (d) estimate the quantity of oil which could pool up in the under-ice depressions should oil be released under the ice cover (e) we impulse radar to study the electromagnetic properties and anisotropy of sea ice. Initial results from using a polarized radar antenna in the air from the NOAA helicopter indicate that the c-axis anisotropy can be determined from the air. Because this anisotrom is related to current direction, it should be possible to measure, from an airborne platform, the current direction at the ice water interface

34-3054

Anisotropic properties of sea ice in the 50-150 MHz

Koyaes A et al Environmental assessment of the Alaskan continental shelf, Vol. 8, Transport. Principal investigators' annual reports for the year ending March 1979, Boulder, Colorado, Outer Continental Shelf Environmental Assessment Program, Oct 1979, p.324-353, 4 refs. Morey, R.M.

Sea ice, Ice electrical properties. Anisotropy, Ice crystal structure, Electromagnetic properties, Ocean

currents, Remote sensing.
Results of impulse radar studies of sea ice near Prudhoe Bay. Alaska, show that where there is a preferred current direction

under the ice cost the crystal structure of the ice becomes highly ordered. This includes a crystal structure with a preferred horizontal c-axis that is oriented parallel with the local current. The readia studies show that this structure behaves as an anisotropic delectric. The result is that when electromagnetic energy is radiated from a dipole anienna in which the I-field is oriented perpendicular with the caxis azimuth motioni reflection is detected. It was also found that the frequency dispersion of anisotropic sea ice varies in the horizontal plane and is related to the average bulk brince volume of the ce. The bulk dielectric constant of the ice, as determined from impulse travel time, shows little correlation with the coefficient of anisotropy.

34.3055

Environmental assessment of the Alaskan continental shelf, Vol.9, Hazards, Bouider, Colorado, Outer Continental Shelf Environmental Assessment Program. Oct 1979, 682p. Principal investigators' annual reports for the year ending March 1979 Numerous refs passim. For selected reports see 34-3056 and 34-3056. 34. 1057

Research projects, Sea ice, Subsea permafrost, Seismology, Ocean environments, Shoreline modification. Earthquakes.

Delineation and engineering characteristics of perma-

frost beneath the Beaufort Sea. Sellmann, P.V., et al, MP 1287, Environmental assess ment of the Alaskan continental shelf, Vol. 9, Hazards Principal investigators' annual reports for the year ending March 1979, Boulder, Colorado, Outer Continental Shelf Environmental Assessment Program, Oct

1979, p. 93-115, 19 refs Chamberlain, E., Arcone, S.A., Blouin, S.E., Delancy A.J., Neave, K.G.

Subsea permafrost, Permafrost distribution. Bottom sediment, Boreholes, Temperature measurement, Engineering geology, Seismic surveys, Offshore drilling, Seasonal freeze thaw, Beaufort Sea.

The objective of CRREL's subsea permafrost program is to obtain information on the distribution and properties of permafrost beneath the Beaufort Sea. We are currently acquiring information on the distribution of ice-bonded permafrost from analysis of the velocity structure of commercial seismic records. This report summarizes the results of all studies to date, includ-Into report summarizes the results of all studies to date, including engineering property analysis and preliminary interpreta-tion of seismic data. Emphasis is placed on results that are relevant to offshore development of this region. Discussion of the CRREL drilling and laboratory program represents the most current interpretation of these data.

Buried valleys as a possible determinant of the distri-bution of deeply buried permafrost on the continental

shelf of the Beaufort Sea. Hopkins, D.M., et al. MP 1288, Environmental assessment of the Alaskan continental shelf, Vol. 9, Hazards Principal investigators' annual reports for the year ending March 1979, Boulder, Colorado, Outer Continental Shelf Environmental Assessment Program, Oct. 1979, p. 135-141, 15 refs.

Sellmann, P.V., Chamberlain, E., Lewellen, R.E., Rob-inson, S.W.

Subseu permafrost, Permafrost distribution, Boreholes, Bottom sediment, River basins, Valleys, Beaufort Sea.

Environmental assessment of the Alaskan continental shelf, Vol. 10, Hazards, Data management, Boulder, shelf, Vol.10, Hazards, Data management, Boulder, Colorado, Outer Continental Shelf Environmental Assessment Program, Oct. 1979, 517p., Principal investigators' annual reports for the year ending March 1979. Numerous refs. passim.

Subsea permafrost, Bottom sediment, Sediment transport, Erosion, Seismic surveys, Geomorphology, Environmental impact, Pennic again, Logicities.

Environmental impact, Remote sensing, Logistics, Data processing.

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34-3059
"NIPR-I," a new plankton sampler under sea ice.
Fukuchi, M., et al. *Plankton Society of Japan. Bulle-*tin. Dec. 1979, 26(2), p.104-109, 6 refs.
Tanimura, A., Hoshiai, T.

Samplers, Plankton, Sea ice.

Samplers, Plankton, Sea ice. A plankton sampler was devised to collect zooplankton under the sea ice. The sampler is composed of a cylindrical part (24 cm x 57.5 cm) and a conical plankton net (20 cm x 39 cm). A propeller and an electric motor which drives the propeller are installed inside the cylinder and the plankton net is attached at the posterior end of the cylinder. The plankters are taken into the sampler by a current caused by the rotating propeller and filtered by the plankton net. The sampler is not towed, but is operated as it is suspended horizontally at desired depths under the sea ice. The sampler is of simple structure, inexpensive, light enough for one-man operation. The usefulness of this sampler was shown by the field observations in the Lutzow-Molim Bay, Antarctica, and Lake Saroma, Hokkaido, Japan The problems to be solved for the quantitative investigations are also identified. This sampler is named "NIPR-I". (Auth.)

The state of the s

Mystery flood solved.

Jackson, L.E., Jr., Geos. Summer 1979, p.2-4 Mudflows, Subglacial drainage, Floods, Glacial lakes, Subglacial caves, Glacial hydrology, Glacier beds.

Oil seep in the Arctic. Mungall, C., Geos, Spring 1979, p.2-4 Marine geology, Crude oil, Seepage.

Drift ice features in the Caniapiscau, the glaciel du

Camapiscauj,
Laverdière, C., et al. Geos. Spring 1979, p.9-11. In
Summary Also available in English. Guimont, P

Floating ice, Ice jams, Ice scoring, River ice.

34-3063

Deforestation of reservoirs, ¿Le déboisement dans les

Marcotte, H, et al, Geos, Spring 1979, p.15-17, In

Soucy, A. Trees (plants), Discomposition, Flooding, Ice pres sure. Water waves.

34-3064

Late Quaternary history and the formation of sediments in the marginal and inland seas. [Pozdnechetvertichnaia istoriia i sedimentogenez okrainnykh i vnutrennikh morel<sub>1</sub>, Gershanovich, D.E., ed, Moscow, Nauka, 1979, 212p.

In Russian. For selected articles see 34-3065 through 34-3068. Refs. passim.

Subsea permafrost, Permafrost distribution, Perma-

frost thickness, Permafrost transformation, Bottom sediment, Sedimentation, Marine deposits, Sediment transport, Ice conditions, Paleoclimatology, Glacial deposits, Arctic Ocean.

34-3065

Structure of the Pliocene-Quaternary deposits of the Barents Sea bottom along the Rybachiy Island-Franz Joseph Land cross section. [Stroenie pliotsen-chetver-tichnol tolshchi dna Barentseva moria na razreze: poluostrov Rybachiì-ostrova Zemlia Frantsa Iosifaj. Blazhchishin, A.I., et al, Pozdnechetvertichnaia istoriia i sedimentogenez okrainnykh i vnutrennikh morel (Late Quaternary history and the formation of sediments in the marginal and inland seas) edited by D.E. Gershanovich, Moscow, Nauka, 1979, p.13-19.

D.E. Gershanovich, Moscow, Nauka, 1979, p.13-19. In Russian. 17 refs. Lin'kova, T.I., Kirillov, O.V., Shkatov, E.P. Bottom sediment, Sedimentation, Marine deposits, Clays, Glacial deposits, Sediment transport, Arctic Ocean.

34-3066

Postglacial and Holocene paleogeography of the Barents Sea. IK paleogeografii Barentseva moria v pozd-

nelednikov'e i golotsenej, Kotenev, B.N., Pozdnechetvertichnaja istorija i sedimentogenez okrainnykh i vnutrennikh morel (Late Quaternary history and the formation of sediments in the marginal and inland seas) edited by D.E. Gershanovich, Moscow, Nauka, 1979, p.20-28, In Rus-

Bottom sediment, Ice conditions, Paleoecology, Glacial deposits, Sedimentation, Marine sediments, Bar-

34-3067

Evolution of late and postglacial sediment accumulation in offshore areas of the Barents and White seas. ¡Evoliutsiia osadkonakopleniia v pribrezhnykh raionakh Barentseva i Belogo morei v pozdne- i pos-

lelednikovoe vremiaj, Evzerov, V.IA., Pozdnechetvertichnaia istoriia i sedimentogenez okrainnykh i vnutrennikh moret (Late Quaternary history and the formation of sediments in the marginal and inland seas) edited by D.E. Gershanovich, Moscow, Nauka, 1979, p.29-33, In Russian 11 refs.

Sedimentation, Ice conditions, Paleoclimatology, Marine sediments, Glacial deposits, Polar regions,

34-3068

Cryolithozone of the Ashric Arctic shell. An

olitozona arkticheskogo shel'fa Aziij. Antipina, Z.N., et al, Pozdnechetvertichnaia istoriia i sedimentogenez okrainnykh i vnutrennikh moret (Late Quaternary history and the formation of sediments in the marginal and inland seas) edited by D.E. Gershanovich, Moscow, Nauka, 1979, p.183-189, In Russian 12 refs. Are, F.E., Volchenko, V.V., Molochushkin, E.N.

Subsea permafrost, Permafrost distribution, Frozen rock temperature, Permafrost thickness, Permafrost depth, Permafrost transformation.

34-3069

Heat and mass transfer in low temperature thermal insulation installations. [Teplomassoobmen v niz-kotemperaturnyl h eploizoliatsionnyl h konstrukt-

Kaganer, M.G., Moscow, Energia, 1979, 257p., In English table of contents enclosed Russian with E Refs. 0.242-255

Construction materials. Thermal insulation, Heat transfer, Mass transfer.

Design of casing programs. (Proektirovanic konstruktoid who melois Bulatov, A.L., et al, Moscow, Nedra, 1979, 280p. (Per-

tinent p 85-91, 135-141), In Russian with abridged English table of contents enclosed. 142 rets

Ermalio, L.B., Lebedev, O.A.
Petroleum industry, Wells, Drilling, Well casings, Design, Permafrost.

34-3071

Thermal abrasion of seashores. ¡Termoabraziia morskikh beregovi. Are, F.E., Moscow, Nauka, 1980, 159n, In Russian

with English table of contents enclosed. Refs. p.147-158.

Shore erosion, Abrasion, Subsea permafrost, Permafrost distribution, Permafrost structure, Permafrost transformation, Polar regions, Marine geology, Bibliographies.

34-3072

Snow avalanches in Zailiyskiy and Dzungarskiy Alatau. [Snezhnye laviny Zaililskogo i Dzhungarskogo

Severskii, I.V., Alma-Ata, Nauka, 1978, 256p., In Russian with English table of contents enclosed. Refs

Avalanches, Snow cover distribution, Snow cover structure, Snow cover stability, Avalanche formation, Avalanche triggering, Avalanche forecasting, USSR—Zailiyskiy Alatau, USSR—Dzhungarskiy Alatau. 34-3073

Naleds and countermeasures. [Naledi i bor'ba's nimi], Shushakov, E.V., Moscow, Transport, 1979, 64p., In Russian with English table of contents enclosed.

Naleds, Culverts, Permafrost hydrology, Bridges, Permatrost beneath structures, Icing rate, Ice loads, Baykal Amur railroad, Classifications, Railroad tracks.

Cosobennosti melioratsii zemel' Zapadnof Sibiria, Panin, P.S., ed, Novosibirsk, Nauka, 1979, 252p., In Russian. For selected papers see 34-3075 through 34-3082. Refs. passim.

Land reclamation, Swamps, Permafrost structure, Cryogenic soils, Taiga, Landscape types, Thermal

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Glacier flow, Antarctica—Allan Hills.

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Snow surface, Ice surface, Wind factors, Wind velocity, Topography, Drift, Erosion, Snow air interface, Boundary layer, Antarctica—Mizuho Plateau.

face, Boundary layer, Antarctica—Mizuho Plateau, interaction between the wind and the surface of dry snow and bare ice has been studied by analyzing systematic and quantitative data obtained from field and laboratory researches on the formation of snow waves, which represent one of a variety of deposition crossion patterns (waves, ripples, barchans, sastrugi, dunes, pits, etc.) formed on a snow field, as a wind redistributes a surface layer of deposited snow. Profiles of wind speed were obtained from measurements in the lower surface layer, where snow drifts over dry snow and bare ice surfaces, in Hokkaido, Japan, and in Mizuho Plateau, East Antarctica. A chilecodal stream argund an obstruction (two small huts) was observed by trajectories of smoke and drifting snow particles. When a wind stream encountered an obstacle or a surface irregularity, its boundary layer was separated and turbulent waves were formed around it. Deposition and crosion are discussed in connection with local eddy patterns. (Auth. mod.)

34-3192

Offshore pipelines in the Arctic.

Tunmermans, W.J., Pipeline and gas journal, Apr. 1980, 207(4), p.20-24.

Offshore structures, Pipe laying, Ice conditions, Sub-sea permafrost, Artificial islands, Tunnels, Ice is-

34-3193

34-3193
Offshore innovations. Pipeline and gas journal. Apr. 1980, 207(4), p.25-28, 34.
Offshore structures, Pipe laying, Pipeline freezing, Ocean bottom, Maintenance, Flexural strength.

Bedrock freeze-thaw weathering regime in an alpine environment, Colorado Front Range.

Thorn, C.E., Earth surface processes, July-Sep. 1979, 4(3), p.211-228, 33 refs.
Frozen rocks, Frost weathering, Freeze thaw cycles,

Alpine landscapes, Air temperature, Seasonal variations, Geomorphology.

34.3195

Sorted strips orientated by wind action: some observations from sub-Antarctic Marion Island.
Hall, K., Earth surface processes, July-Sep. 1979, 4(3),

p.281-289, 14 refs.

Ice needles, Frost action, Rock weathering, Glacial deposits, Periglacial processes, Wind factors, Marion

Sorted stripes found on the volcanic scoria and glacial deposits Sorted stripes found on the volcanic scoria and glacial deposits of Subantarctic Marion Island indicate a distinct preferred orientation. Despite uniformity of slope and material, the stripes are predominantly aligned parallel to the wind. It is suggested that melting of needle ice by the early morning sun is of only limited importance in the Subantarctic, owing to the almost continual overcast conditions. The effect of the wind is so great that in exposed situations stripes are formed on horizontal sufaces. (Auth.)

34-3196

Recommendations for the design and construction of Recommendations for the design and construction of tailings dumps under severe climatic conditions. [Rekomendatsii po proektirovaniiu sooruzhenii khvostokhranilishch v surovykh klimaticheskikh us-

Vsesoiuznyl nauchno-issledovateľskil in-Moscow. stitut vodosnabzheniia, kanalizatsii, gidrotekhnicheskikh sooruzhenit i inzhenernot gidrogeologii, Moscow, 1977, 152p., In Russian with English table of contents enclosed.

Mining, Earth dams, Tailings, Embankments, Permafrost beneath structures, Slurry ponds.

Effectiveness of using mineral raw materials in the Far North. ¡Effektivnost' ispol'zovaniia mineral'nogo

syr'ia v usloviiakh Krainego Severa, Fedoseev, V.A., Leningrad, Nauka, 1979, 215p., In Russian with abridged English table of contents enclosed. 138 refs.

Economic development, Mining, Construction materials, Minerals, Fuels, Transportation.

34-3198

Environmental analysis of the Upper Susitna River Basin using Landsat imagery. Gatto, L.W., et al, U.S. Army Cold Regions Research

and Engineering Laboratory, Jan. 1980, CR 80-4, 41p., ADA-084 900, 52 refs.

ADA-084 900, 52 rets.
Merry, C.J., McKim, H.L., Lawson, D.E.
Aerial surveys, Remote sensing, Spaceborne photography, LANDSAT, Mapping, Photointerpretation,
Spacecraft, River basins, Environments, United
States—Alaska—Susitna River.

States—Alaska—Susitna River.

The primary objectives of this study were to 1) prepare a map from Landsat imagery of the Upper Susitna River Basin drainage network, lakes, glaciers and snowfields, 2) identify possible faults and lineaments within the upper basin and within a 100-km radius of the proposed Devil Canyon and Watana dam sites as observed on Landsat imagery, and 3) prepare a Landsaterived map showing the distribution of surficial geologic materials and poorly drained areas. The EROS Digital Image Enhancement System (EDIES) provided computer-enhanced images of Landsat-1 scene 5470-19560. The EDIES false color composite of this scene was used as the base for mapping drainage network, lakes, glaciers and snowfields, six surficial geologic materials units and poorly drained areas. Some single-band and other color composites of Landsat images were geologic materials units and poorly drained areas. Some single-band and other color composites of Landsat images were used Juring interpretation. All the above maps were prepared by photointerpretation of Landsat images without using computer analysis, aerial photographs, field data, or published reports

34-3199

Analysis of the performance of a 140-foot Great Lakes icebreaker: USCGC Katmai Bay.
Vance, G.P., U.S. Army Cold Regions Research and

Engineering Laboratory, Feb. 1980, CR 80-8, 28p., ADA-084 736, 8 refs.

Icebreakers, Bubbles, Protective coatings, Ice cover

thickness, Ice friction, Ice strength.

thickness, Ice friction, Ice strength.

This report presents the results of the tests on the new U.S. Coast Guard 140-ft icebreaker Katmai Bay (WTGB-101) in the level plate ice and brash ice in Whitefish Bay and the St. Marys. River. The results indicate that the vessel can penentrate 22 in. of level freshwater ice with 2-3 in. of snow cover. It can also penetrate up to 48 in. of brash ice in a continuous mode and at least 30 in. of plate ice by backing and ramming. The installed bubbler system decreased the required power of the vessel from 10 to 30<sup>th</sup> in brash ice and 25 to 35<sup>th</sup> in level ice. The low friction coating appears to be effective in decreasing the friction factor when it remains intact; when it peels off, it appears to make conditions worse than plain paint. An average dynamic friction factor of 0.15 could be used over the entire hull for these tests.

34-3200

Mathematical model to correlate frost heave of pavements with laboratory predictions. Berg, R.L., et al, U.S. Army Cold Regions Pesearch

and Engineering Laboratory, Feb. 1980, CR 80-10, 49p., ADA-084 737, 67 refs.

Cuymon, G.L., Johnson, T.C.
Mathematical models, Frost heave, Frost penetration, Heat transfer, Soil water migration, Pavements, Computerized simulation. Laboratory techniques. Forecasting.

A mathematical model of coupled heat and moisture flow in soils has been developed. The model includes algorithms for phase change of soil moisture and frost heave and permits sevphase change of soil moisture and frost neave and permits several types of boundary and initial conditions. The finite element method of weighted residuals (Galerkin procedure) was chosen to simulate the spatial regime, and the Crank-Nicholson method was used for the time domain portion of the model. To facilitate evaluation of the model, the heat and moisture fluxes were essentially decoupled; moisture flux was then simulating the control of the model. fluxes were essentially decoupled; moisture flux was then simulated accurately, as were heat flux and frost heave in a laboratory test. Comparison of the simulated and experimental data illustrates the importance of unsaturated hydraulic conductivity. It is one parameter which is difficult to measure and for which only a few laboratory test results are available. Therefore, unsaturated hydraulic conductivities calculated in the computer model may be a significant source of error in calculations of frost heave. The algorithm incorporating effects of surcharge and overburden was inconclusively evaluated. Time-dependent frost penetration and frost heave in laboratory specimens were closely simulated with the model. After 10 Time-dependent frost penetration and frost heave in laboratory specimens were closely simulated with the model. After 10 days of simulation, the computed frost heave was about 2.3 cm vs. 2.0 cm and 2.8 cm in two tests. Frost penetration was computed as 15 cm and was measured at 12.0 cm and 12.2 cm in the two laboratory samples after 10 days.

34-3201

Seasonal cycle of snow cover, sea ice and surface al-

Robock, A., Monthly weather review, Mar. 1980. 108(3), p.267-285, 41 refs.

Remote sensing, Snow cover distribution, Sea icc distribution, Albedo, Mapping, Seasonal variations, Meltwater, Solar radiation, Surface temperature.

34-3202

Preliminary study of ice grown by droplet accretion using water-insoluble particles as tracer.

Prodi, F., et al, Journal of applied meteorology, Mar. 1980, 19(3), p.284-289, 13 refs.

Nagamoto, C.T., Rosinski, J.
Ice growth Cloud droplets, Ice accretion, Ice structure, Particles, Freezing, X ray analysis, Hailstone growth, Wind tunnels, Water pollution.

Proceedings of the All-Union symposium on the rheology of soils, 2nd, Tsakhkadzor, Oct. 7-10, 1975.

Vsesoiuznył simpozium po reologii gruntov, 2nd, Tsakhkadzor, Oct. 7-10, 1975, Erevan, Izd-vo Erevanskogo Universiteta, 1976, 406p., In Russian. lected see 34-3204 through 34-3225 Refs. Refs. passim.

DLC TA710.A1V74
Clays, Clay soils, Tailings, Frozen fines, Deformation, Rheology, Frost penetration, Fracturing, Ground ice, Ice crystals, Ice physics.

34-3204

Theory of shearing creep of clay and its experimental confirmation. (Teoriia polzuchesti gliny pri sdvige i ee eksperimental noe podtverzhdenie).

Ter-Stepanian, G.I., Vsesoiuznyl simpozium po reologii gruntov, 2nd, Tsakhkadzor, Oct. 7-10, 1975, Trudy (Proceedings of the All-Union symposium on the rheology of soils, 2nd Tsakhkadzor, Oct. 7-10, 1975). Erevan, Izd-vo Erevanskogo Universiteta, 1976, p.74-97, In Russian. 17 refs. DLC TA710.A1V74

Clays, Shear strength, Rheology, Creep.

Shearing creep of clay soils due to vibration. [Sdvigo-

vaia vibropolzuchest' glinistogo gruntaj, Badalian, R.G., et al, Vsesoiuznyl simpozium po reologii gruntov, 2nd, Tsakhkadzor, Oct. 7-10, 1975, Trudy (Proceedings of the All-Union symposium on the rheology of soils, 2nd, Tsakhkadzor, Oct. 7-10, 1975). Erevan, 1zd-vo Erevanskogo Universiteta, 1976, p.117-127, 1n Russian. 5 refs.

DLC TA710.A1V74

Clay soils, Rheology, Vibration, Creep.

Forecasting collapse of frozen rock slopes. [Prognozirovanie vremeni do obrushenija otkosov merzlykh

porod<sub>3</sub>. Vialov, S.S., et al, Vsesoiuznyl simpozium po reologii gruntov, 2.0d, Tsakhkadzor, Oct. 7-10, 1975, Trudy (Proceedings of the All-Union symposium on the rheology of soils, 2nd, Tsakhkadzor, Oct. 7-10, 1975), Erevan, Izd-vo Erevanskogo Universiteta, 1976, p.143-151, In Russian. 4 refs. Bondarenko, G.l.

DLC TA710 A1V74

Frozen ground, Tailings, Slope processes, Sliding,

Studying static growth of cracks in sand at subzero temperatures. [Issledovanie staticheskogo rosta tresh-chin v peske pri otritsatel'nol temperature],

Grechishchev, S.E., Vsesoiuznyl simpozium po reologii gruntov, 2nd, Tsakhkadzor, Oct. 7-10, 1975, Trudy (Proceedings of the All-Union symposium on the rheology of soils, 2nd, Tsakhkadzor, Oct. 7-10, 1975), Erevan, Izd-vo Erevanskogo p.158-164, In Russian. 2 refs. DLC TA710.A1V74 Izd-vo Erevanskogo Universiteta, 1976.

Sands, Frost penetration, Frost action, Fracturing.

Micromechanism of ice deformation under load. [K voprosu o mikromekhanizme deformirovanija l'da pod

nagruzkoj, Zaretskił, IU.K., et al. Vsesoiuznył simpozium po reologii gruntov, 2nd, Tsakhkadzor, Oct. 7-10, 1975, Trudy (Proceedings of the All-Union symposium on the rhedogy of soils, 2nd, Tsakhkadzor, Oct 7-10, 1975), Erevan, Izd-vo Erevanskogo Universiteta, 1976, p.200-210, In Russian. 11 refs. Solomatin, V.I., Chumichev, B.D. DLC TA710.A1V74

and the second s

Ice crystals, Ice crystal structure, Ice acoustics, Ice mechanics, Deformation

Determining creep parameters of weak clayey soils.

Determining creep parameters of weak clayey soils. (K voprosu ob opredelenii parametrov polzuchesti slabykh glinistykh gruntov<sub>1</sub>.

Karpov, V.M., Vsesoiuznyl simpozium po reologii gruntov, 2nd, Tsakhkadzor, Oct. 7-10, 1975, Trudy (Proceedings of the All-Union symposium on the rheology of soils, 2nd, Tsakhkadzor, Oct. 7-10, 1975), Erevan, 1zd-vo Erevanskogo Universiteta, 1976, 2013-2014.

p.211-219, In Russian. 6 refs. DLC TA710.AIV74

Clay soils, Rheology, Creep.

Creep as reflected in the numerical calculation of the

Creep as reflected in the numerical calculation of the stress-strain state of foundations. [Otrazhenie polzuchesti v chislennom raschete napriazhenno-deformirovannogo sostoianiia osnovanii]. Kryzhanovskii, A.L., et al., Vsesoiuznyl simpozium poreologii gruntov, 2nd, Tsakhkadzor, Oct. 7-10, 1975, Trudy (Proceedings of the All-Union symposium on the rheology of soils, 2nd, Tsakhkadzor, Oct. 7-10, 1975), Erevan, Izd-vo Erevanskogo Universiteta, 1976, p 220-227, In Russian. 10 refs.

DLC TA710.AIV74

Frozen fines, Clays, Rheology, Deformation.

Factors determining rheologic properties of clays. (Faktory opredeliaiushchie reologicheskie svolstva

gornykh porodj. Kul'chitskii, L.L., et al, Vsesoiuznyl simpozium po reologii gruntov. 2nd, Tsakhkadzor, Oct. 7-10, 1975. Trudy (Proceedings of the All-Union symposium on the rheology of soils, 2nd, Tsakhkadzor, Oct. 7-10, 1975), Erevan, Izd-vo Érevanskogo Universiteta, 1976, p.228-240, In Russian. 12 refs.

Bondarik, G.K. DLC TA710.A1V74 Clays, Rheology, Models.

Collapse of fluid and semi-solid clay soils. [Osobennosti razrusheniia glinistykh gruntov polutverdot i tekuchet konsistentsiij.

tekuchet konsistentsiij.

Maksimiak. R.V., Vsesoiuznyl simpozium po reologii gruntov. 2nd. Tsakhkadzor, Oct. 7-10, 1975. Trudy (Proceedings of the All-Union symposium on the rheology of soils, 2nd, Tsakhkadzor, Oct. 7-10, 1975). Erevan, 1zd-vo Erevanskogo Universiteta, 1976, p.241-246. In Russian. 1 ref.

DLC TA710.A1V74

Clay soils, Plastic deformation, Plastic flow.

34-3213

Strength of clay soils in time. [Priroda prochnosti gli-

Maslov, N.N., et al, Vsesoiuznyl simpozium po reologii gruntov, 2nd, Tsakhkadzor, Oct. 7-10, 1975, Trudy (Proceedings of the All-Union symposium on the rheology of soils, 2nd, Tsakhkadzor, Oct. 7-10, 1975), Erevan, Izd-vo Erevanskogo Universiteta, 1976, p.247-255, In Russian.

Karaulova, Z.M. DLC TA710.A1V74

Clay soils, Sliding, Supports, Walls, Foundations,

34-3214

Compression creep of sagging ground. [Kompression-naia polzuchest' prosadochnykh gruntov], Meschian, S.R., et al, Vsesoiuznyl simpozium po reologii gruntov, 2nd. Tsakhkadzor, Oct. 7-10, 1975, Trudy (Proceedings of the All-Union symposium on the rheology of soils, 2nd, Tsakhkadzor, Oct. 7-10, 1975), Ergunt Lidyo, Ergunton, Universitata 1975. Erevan, Izd-vo Erevanskogo Universiteta, 1976. p.256-267, ln Russian. 6 refs.

Badalian, R.G., Malakian, R.P DLC TA710.A1V74

Clay soils, Compressive properties, Rheology, Settlement (structural).

Skeleton creep of weak water-saturated clay soils. [Polzuchest' skeleta slabykh vodonasyshchennykh

Polzuchest' skeleta slabykh vodonasyshchennykh gruntov<sub>3</sub>. Meschian, S.R., et al, Vsesoiuznyl simpozium po reolo-gii gruntov, 2nd, Tsakhkadzor, Oct. 7-10, 1975, Trudy (Proceedings of the All-Union symposium on the rheology of soils, 2nd, Tsakhkadzor, Oct. 7-10, 1975), Erevan, Izd-vo Erevanskogo Universiteta, 1976, p.268-277, In Russian. 6 refs. Galstian, R.R., Badalian, R.G. DLC TAT10.A1V74

Clay soils, Soil water, Rheology, Creep.

Determining stress relaxation in clayey grounds at shearing. [O metodike opredeleniia relaksatsii na-priazhenii v glinistykh gruntakh pri sdvige], Meschian, S.R., et al, Vsesoiuznyl simpozium po reolo-

(Proceedings of the All-Union symposium on the rheology of soils, 2nd, Tsakhkadzor, Oct. 7-10, 1975, Trudy (Proceedings of the All-Union symposium on the rheology of soils, 2nd, Tsakhkadzor, Oct. 7-10, 1975), Erevan, 1zd-vo Erevanskogo Universiteta, 1976, p.278-282, In Russian. 3 refs.

Postolakian, R.A.

DLC TA710.A1V74
Clay soils, Shear stress, Relaxation (mechanics),
Rheology.

34-3217

Influence of transient processes on bearing strength of piles in weak clayey grounds. (Vlianic vremennykh protsessov na formirovanie nesushchet sposobnosti

svai v slabykh glinistykh gruntakhj. Mets, M.A., Vsesoiuznyt simpozium po reologii gruntov, 2nd, Tsakhkadzor, Oct 7-10, 1975, Trudy (Proof soils, 2nd, Tsakhkadzor, Oct. 7-10, 1975), Erevan, Izd-vo Erevanskogo Universiteta, 1976, p.283-296, In Russian 4 refs DLC TA710.A1V74

Clay soils, Foundations, Piles, Bearing strength.

34-3218

Studying stress relaxations in water-saturated clayey soils. [Issledovanie relaksatsii napriazhenit v vodona-

soiis. Itssiedovanie relaksatsii napriazhenit v vodona-syshchennom glinistom gruntej. Postolakian, R.A., et al, Vsesoiuznyl simpozium po reologii gruntov. 2nd, Tsakhkadzor, Oct. 7-10, 1975, Trudy (Proceedings of the All-Union symposium on the rheology of soils. 2nd, Tsakhkadzor, Oct. 7-10, 1975), Erevan, Izd-vo Erevanskogo Universiteta, 1976, p.303-313, In Russian. 9 refs.

Meschian, S.R.
DLC TA710.A1V74
Clay soils, Soil water, Relaxation (mechanics), Foundations, Settlement (structural).

34-3219

Studying the effect of loading regime on the strength

of clay soils, disteledovanic vilianiia rezhima zagruzheniia na prochnost' glinistykh gruntovj.

Sorokina, G.V., Vsesoiuznyl simpozium po reologii gruntov, 2nd, Tsakhkadzor, Oct. 7-10, 1975, Trudy (Proceedings of the All-Union symposium on the rheology of soils, 2nd, Tsakhkadzor, Oct. 7-10, 1975). Erevan, Izd-vo Erevanskogo Universiteta, 1976. p.314-321, In Russian. 5 refs. DLC TA710.A1V74

Clay soils, Plastic properties, Viscous flow, Soil

34-3220

Univariate compaction of ground, allowing for viscoplastic deformations. [Odnomernoe uplotnenie gruntov s uchetom viazko-plasticheskikh deformatsil], tov s uchetom viazko-plasticheskikh deformatsilj, Ter-Martirosian, Z.G., Vsesoiuznył simpozium po reologii gruntov, 2nd, Tsakhkadzor, Oct. 7-10, 1975, Trudy (Proceedings of the All-Union symposium on the rheology of soils, 2nd, Tsakhkadzor, Oct. 7-10, 1975), Erevan, Izd-vo Erevanskogo Universiteta, 1976, p.322-327, In Russian. 8 refs. DLC TA710,A1V74

Clays, Compressive properties, Soil compaction, Creep, Viscoelasticity, Plastic deformation.

34-3221

Studying wave processes in linear viscoelastic media under dynamic loads. ¡Issledovanie volnovykh prot-sessov v linelnykh viazkouprugikh sredakh pri voz-

delstvii dinamicheskikh nagruzok,
Filippov, I.G., Vsesoiuznyl simpozium po reologii
gruntov, 2nd, Tsakhkadzor, Oct. 7-10, 1975. Trudy
(Proceedings of the All-Union symposium on the
rheology of soils, 2nd, Tsakhkadzor, Oct. 7-10, 1975).
Erevan, 1zd-vo Erevanskogo Universiteta, 1976,
328,345 In Puseim 6 refe. p.328-345, In Russian. 6 refs. DLC TA710.A1V74

Clays, Dynamic loads, Stresses, Analysis (mathemat-

34-3222

Nonlinear consolidation of clays allowing for aging. Nonlinear consolidation of clays allowing for aging, Nelineinaia konsolidatsiia glin s uchetom stareniiaj, Tsytovich, N.A., et al, Vsesoiuznyi simpozium po reologii gruntov, 2nd, Tsakhkadzor, Oct. 7-10, 1975, Trudy (Proceedings of the All-Union symposium on the rheology of soils, 2nd, Tsakhkadzor, Oct. 7-10, 1975), Erevan, 1zd-vo Erevanskogo Universiteta, 1976, p 346-351, 1n Russian, 12 refs. Ter-Martirosian, Z.G., Nuridzhanian, S.Sh DLC TA710.A1V74

oil compaction, Clay soils, Peat, Soil water, Rheology, Compressive properties.

34-3223

Shearing creep mechanism at variable pore pressure. O mekhanizme polzuchesti sdviga pri peremennom

To mekhanizme polzucnesti saviga pri peremennom porovom davleniij.
Tsytovich, N.A., et al, Vsesoiuznyt simpozium po reologii gruntov, 2nd, Tsakhkadzor, Oct 7-10, 1975, Trudy (Proceedings of the All-Union symposium on the rheology of soils, 2nd, Tsakhkadzor, Oct 7-10, 1975), Erevan, Izd-vo Erevanskogo Universiteta, 1976, p.352-359, In Russian. 7 refs.

DLC TA710.AIV74

Clay soils, Shear strength, Creep.

34-3224

Determining rheologic properties of perennially frozen hard fractured rocks. (Nekotorye voprosy opredelenija reologicheskikh svoisty vechnomerzlykh

opredelenia reologicheskikh svoistv vechnomerziykh treshchinovatykh skal'nykh porodj.
Tsytovich, N.A., et al. Vsesoiuznyl simpozium po reologii gruntov. 2nd, Tsakhkadzor, Oct. 7-10, 1975. Trudy (Proceedings of the All-Union symposium on the rheology of soils, 2nd, Tsakhkadzor, Oct. 7-10, 1975). Erevan, 1zd-vo Erevanskogo Universiteta, 1976 a 240, 268 | B. Burgior, 21, 200 1976, p.360-368, In Russian. 21 refs.

Kubetskii, V.L. DLC TA710.A1V74

Permafrost bases, Fracturing, Ground ice, Rheology.

Calculating nonstationary flow rates of landslide-

Calculating nonstationary flow rates of landslide-mudflows. (Raschet skorosti nestatsionarnogo te-chenita opolznel-potokov). Shadunts. K.Sh., et al. Vsesoiuznyl simpozium po-reologii gruntov, 2nd, Tsakhkadzor, Oct. 7-10, 1975, Trudy (Proceedings of the All-Union symposium on the rheology of soils, 2nd, Tsakhkadzor, Oct. 7-10, 1975). Erevan, Izd-vo Erevanskogo Universiteta, 1976, p.369-376, In Russian. 7 refs. Kulikov, N.P. DLC TA710.AlV74 Slope processes. Landslides. Clays. Mudflows.

Slope processes, Landslides, Clays, Mudflows.

Geosystems of the West Savan foothills, rGeosistemy

predgoril Zapadnogo Saianaj, Antipov, A.N., et al. Novosibirsk, Nauka, 1979, 319p., In Russian with abridged English table of contents

enclosed. Refs. p.304-313.

Taiga, Landscape types, Cryogenic soils, Slope processes, Snow cover distribution, Forest canopy, Soil water migration, USSR—Sayan Mountains.

Studying the structure of forest tundra landscapes as indicators of engineering and geological conditions for economic development in West Siberia. (Izuchenie struktury prirodnykh kompleksov lesotundry dlia indikatsii inzhenerno-geokriologicheskikh uslovit v ratonakh khoziatstvennogo osvoeniia Zapadnot Sibirij, Moskalenko, N.G., et al, Znachenie biogeografii dlia melioratsii (Significance of biogeography for land reclamation) edited by A.G. Voronov and D.D. Vyshiv-kin, Moscow, 1979, p.88-100, In Russian. 5 refs. Slavin-Borovskii, V.B., Ukraintseva, N.G., Shchur, 11 J. L.

Forest tundra, Environmental protection, Human factors, Construction, Petroleum industry, Landscape types, Permafrost distribution, Permafrost hydrology.

Introduction of indigenous plants in the northern Kola Peninsula. [Introduktsiia rastenii prirodnoi flory

Kola Peninsula, Introduktsiia rastenii prirodnoi flory na Kol'skom Severe, Andreev, G.N., Voprosy introduktsii rastenii na Kol'skom Severe (Introduction of plants in the northern Kola Peninsula) edited by G.N. Andreev and L.M. Luk'ianova, Apatity, Akademiia nauk SSSR, 1979, p.3-14, In Russian. Refs. p.12-14. Introduced plants, Plant ecology, USSR—Kola Peninsula

was a transfer with the will be

Acclimatization of introduced plants and ways to hasten it in high latitudes. (Akklimatizatsiia fitointrodutsentov i puti ce uskorenna v regionakh vysokikh shi

Agaev, M.G., Voprosy introduktsii rastenii na Kol'skom Severe (Introduction of plants in the northern Kola Peninsula) edited by GN. Andreev and L.M. Luk'ianova, Apatity, Akademiia nauk SSSR, 1979, p.15-25, In Russian Rets. p.23-25. Introduced plants, Plant physiology, Plant ecology, USSR—Kola Peninsula.

34-3230

Significance of antarctic and subantarctic regions for plant introduction research. (Znachenie antarkticheskikh i subantarkticheskikh ratonov dlia tselei in-

kikh i subantarkticheskikh rajonov dha tselet in-troduktsii rastenin.
Golovkin, B.N., Voprosy introduktsii rastenii na Kol'-skom Severe (Introduction of plants in the northern Kola Peninsula) edited by G.N. Andreev and I. M. Luk'ianova, Apatity, Akademia nauk SSSR, 1979, p.30-41, Russian Refs. p.40-41 Introduced plants, Plant ecology.

Introduced plants, Plant ecology.

Plants of the subpitantic and antarctic areas hold great promise as potential species suitable for introduction in the Far North, since they are able to withstand harsh conditions. Some few one-side introduction studies have been done with such plants, these are reviewed here. Also, subantiactic and antarctic plants have been successfully cultivated in various botanical gardens and research stations in the Soviet Union and elsewhere. This research is also reviewed with the aim of identifying promising directions for future work.

34-3231

Preliminary investigations of the kinetics of nitrogen transformation and nitrosamine formation in land treatment of wastewater.

Jacobson, S., et al. U.S. Army Cold Regions Research 59p. ADA-086 169, 94 refs.

Alexander, M.

Waste disposal, Water treatment. Soil chemistry, Laboratory techniques.

Laboratory techniques.
In laboratory experiments, denitrification of nitrate in wastewater proceeded slowly in an acid soil (pH 4.2), but the rate was last in soils with pH values of 5.5 to 6.8. The rate of denitrification was governed by the carbon source added, with glucose supporting the fastest rate. The rate was somewhat slower with methanol and succinate and was appreciably slower with secondary effluents as the source of supplemental carbon Charlton loam supported the more rapid dentification with glucose as a carbon source, but the rate was higher in Windsor andly loam with sewage as the carbon source. Denitrification in these soils did not occur at 1C, and the rate increased with rising temperatures. rising temperatures

English translations of the forty-nine Soviet papers. the one French paper, and the three invited Soviet

theme papers, Part 2. International Conference on Permafrost, 3rd, Edmonton, Alberta, July 10-13, 1978, Ottawa, Canada, National Research Council, Mar. 1980, 428p., Refs. passim. For individual papers see 34-3233 through 34-3259.

Geocryology, Permafrost physics, Permafrost forecasting, Permafrost control, Soil chemistry, Subsea permafrost, Environmental protection, Engineering.

Principles of cryolithological regionalization of the permafrost zone. Vtiurin, B.I., International Conference on Permafrost.

yturin, B.I., International Conference on Permatrost, 3rd, Edmonton, Alberta, July 10-13, 1978. English translations of the forty-nine Soviet papers, the one French paper, and the three invited Soviet theme papers, Part 2, Ottawa, Canada, National Research Council, Mar. 1980, p.1-9, 13 refs. For Russian original co. 3.2, 3710. nal see 32-3730.

Mapping, Permafrost structure, Charts, Cryogenic textures, Ground ice, Permafrost ice content.

34-3234

Terrain-forming processes in the permafrost region and the principles of their prevention and limitation in territories under development.

Grave, N.A., et al, International Conference on Permafrost, 3rd, Edmonton, Alberta, July 10-13, 197° the one French paper, and the three invited Soviet theme papers, Part 2, Ottawa, Canada, National Research Council, Mar. 1980, p.11-23, 22 refs. For Russian original see 32-3733

Sukhodrovskii, V.L. Geocryology, Solifluction, Frost weathering, Frost heave, Thermokarst, Permafrost transformation, Human factors.

34-3235

Hydrogeochemical investigations in permafrost stud-

Anisimova, N.P., International Conference on Perma frost, 3rd, Edmonton, Alberta, July 10-13, 1978 frost, 3rd, Famonton, Alberta, July 10-13, 1978. English translations of the forty-time Soviet papers, the one French paper, and the three invited Soviet theme papers, Part 2, Ottawa, Canada, National Research Council, Mar 1980, p 25-41, 11 refs. For Russian Council, Mar 1980, p 25-41, 11 refs. sian original sec 23-3736

Permafrost origin, Ground ice, Permafrost transfor-mation, Permafrost hydrology, Water chemistry.

34-3236 Use of AC current surveys in permafrost studies. Avetikian, R. A. International Conference on Perma-trost, 3rd, Edmonton, Alberta, July 10-13, 1978 English translations of the forty-nine Soviet papers, the one French paper, and the three invited Soviet theme papers, Part 2, Ottawa, Canada, National Research Council, Mar. 1980, p.43-56, 4 refs.—For Russian original see 32-3739

ermafrost physics. Electromagnetic prospecting, Measuring instruments.

Forecast of changes in geocryological conditions during economic development of the permafrost region. Kudriaytsey, V.A., et al. International Conference on Permafrost, 3rd, Edmonton, Alberta, July 10-13, 1978 English translations of the forty-nine Soviet papers. the one French paper, and the three invited Soviet theme papers, Part 2, Ottawa, Canada, National Re-search Council, Mar. 1980, p.57-69. For Russian origi-nal sec. 32-37-42.

Permafrost transformation, Human factors, Permafront foregrating. Parmshout control

34-3238

Geocryological survey methods.

Kudriavtsev, V.A., et al, International Conference on Permafrost, 3rd, Edmonton, Alberta, July 10-13, 1978. English translations of the forty-nine Soviet papers, the one French paper, and the three invited Soviet theme papers. Part 2, Ottawa, Canada, National Re-search Council, Mar. 1980, p.71-84, For Russian origi-nal see 32–3743.

Kondrat'eva, K.A.

Geocryology, Surveys, Permafrost distribution, Permafrost structure, Economic development. Human factors, Permafrost transformation, Permafrost forecasting, Environmental protection.

Electrical state of a permafrost cross section.

Mel'nikov, V.P., et al, International Conference Permafrost, 3rd, Edmonton, Alberta, July 10-13, 1978 English translations of the forty-nine Soviet papers, the one French paper and the theoretical papers. the one French paper, and the three invited Soviet theme papers, Part 2, Ottawa, Canada, National Re-search Council, Mar. 1980, p.85-102, 12 refs. For Russian original sec 32-3745. Jennadinik, B.I.

Electromagnetic prospecting, Permafrost physics, Permafrost structure, Electrical properties, Geologi-

cal cross sections.

Thermal interaction of pipelines with the ground.

Garagulia, L.S., et al. International Conference on Permafrost, 3rd. Edmonton, Alberta, July 10-13, 1978. English translations of the forty-nine Soviet papers, the one French paper, and the three invited Soviet theme papers, Part 2, Ottawa, Canada, National Research Council, Mar. 1980, p.103-116, 10 refs. For Russian original see 32-3750.

Parmuzin, S.IU., Spiridonov, V.V., Tsurikov, A.S.

Pipelines, Frozen ground temperature, Permafrost heat transfer. Seasonal freeze thaw.

Present state of research on the freezing of rocks and construction materials.

mafrost, 3rd, Edmonton, Alberta, July 10-13, 1978 English translations of the forty-nine Soviet papers, the one French paper, and the three invited Soviet theme papers. Part 2, Ottawa, Canada, National Re-search Council, Mar. 1980, p.117-132, 62 rets. For French original see 32-3752

Soil freezing, Frost penetration, Construction materials. Freeze thaw cycles. Frozen rock temperature.

Ice rich soils as bases for structures

Dokachaev, V.V., et al. International Conference on Permafrost, 3rd, Edmonton, Alberta, July 10-13, 1978 English translations of the forty-mile Soviet papers. English translations of the forty-nine Soviet papers, the one French paper, and the three insited Soviet theme papers. Part 2. Ottawa. Canada, National Research Council, Mar. 1980, p.133-147, 6 refs.—For Russian original see 32-3757.

Arternov. Z.P., Sheinkman, D.R.
Pile structures, Foundations, Settlement (structural).

Permafrost beneath structures, Ground ice, Design.

Problems and possibilities of studying the processes

of dynamic relaxation in frozen earth materials.
Frolov, A.D. International Conference on Permafrost, Frolox, A.D., International Conference on Permafrost, 3rd, Edmonton, Alberta, July 10-13, 1978. English translations of the forty-mine Soviet papers, the one French paper, and the three invited Soviet theme papers. Part. 2. Ottawa, Canada, National Research Council, Mar. 1980, p. 149-167, 18 refs.—For Russian original see. 32-3759.

Ground ice, Frozen ground physics, Electrical properties. Palestine and programme and p

ties, Relaxation spectroscopy

On the role of the components of frozen clay soils in the development of strength at different tempera-

Maksimiak, R.V., et al. International Conference on Maksimiak, R.V., et al. International Conference on Permafroxt, 3rd, Edmonton, Alberta, July 10-13, 1978. English translations of the forty-nine Soviet papers, the one French paper, and the three invited Soviet theme papers, Part 2, Ottawa, Canada, National Research Council, Mar. 1980, p.109-183, 17 refs. For Russian original see 32-3765. Shusherina, F.P., Rogov, V.V., Zabolotskaia, M.I.

Frozen ground strength, Microstructure.

Kinetic theory of deformation of frozen soils. Vialov, S.S., International Conference on Permafrost.

State Edmonton, Alberta, July 10-13, 1978. English translations of the forty-nine Soviet papers, the one French paper, and the three invited Soviet theme papers. Part 2. Ottawa, Canada, National Research Council, Mar. 1980, p. 185-197, 5 tefs. For Russian paragraphs of the papers. original see 32-3774

Frozen ground mechanics, Frozen ground temperature, Deformation, Creep properties, Analysis (mathematics).

Permafrost investigations in pipeline construction.

Baulin, V.V., et al. International Conference on Perma-frost, 3rd, Edmonton, Alberta, July 10-13, 1978 English translations of the forty-nine Soviet papers. the one French paper, and the three invited Soviet theme papers, Part 2, Ottawa, Canada, National Re-search Council, Mar. 1980, p.199-212. For Russian original see 32-3777

Dubikov, G.L. Uvarkin, IUT, Garagulia, L.S. Spiridonov, V.V. Pipelines, Permafrost beneath structures, Surveying,

Permafrost forecasting.

34-3247

Characteristics of the construction of frozen dams in

Characteristics of the construction of frozen dams in Western Yakutia.

Binanov, G.F., et al. International Conference on Permafrost, 3rd. Edmonton, Alberta, July 10-13, 1978. English translations of the forty-nine Soviet papers, the one French paper, and the three invited Soviet theme papers, Part 2, Ottawa, Canada, National Research Council, Mar. 1980, p.213-226, 1 ref. For Russian original see 32-3778.

Makarov, V.J.

Hydraulic structures, Dams, Permafrost beneath structures, Permafrost control, Artificial freezing, USSR—Yakutia.

34-3248

Seasonally operating units and their use in northern

Construction.
Buchko, N.A., et al. International Conference on Per-English translations of the forty-nine Soviet papers. the one French paper, and the three invited Soviet theme papers, Part 2, Ottawa, Canada, National Research Council, Mar. 1980, p. 227-240, 20 refs.—For Russian original see 52-3779.
Kuznetsov, A.L., Gapeev, S.I.
Permafrost beneath structures, Permafrost control, Artificial forces in Couling see the structures.

Artificial freezing, Cooling systems.

of he will be do not not been a warted

Construction of multi-storey buildings on cold piles in

the city of Mirnyy.

Makarov, V.I., et al, International Conference on Permafrost, 3rd, Edmonton, Alberta, July 10-13, 1978. English translations of the forty-nine Soviet papers. English translations of the forty-nine Soviet papers, the one French paper, and the three invited Soviet theme papers, Part 2, Ottawa, Canada, National Research Council, Mar. 1980, p.241-254, 4 refs. For Russian original sec 32-3784 Plotnikov, A.A., Chumaevskii, B.F. Pile structures, Permafrost beneath \*\* actures, Foundations, Buildings, Frozen ground nperature, Artificial freezing, Cooling systems, T.

Strength and stability of railway subgrades in perma-

Peretrukhin, N.A., International Conference on Permafrost, 3rd, Edmonton, Alberta, July 10-13, 1978. English translations of the forty-nine Soviet papers, the one French paper, and the three invited Soviet

the one French paper, and the three invited soviet theme papers, Part 2, Ottawa, Canada, National Re-search Council, Mar. 1980, p.255-267, 11 refs. For Russian original see 32-3788. Railroads, Embankments, Subgrade soils, Permafrost beneath structures, Design.

34-3251

Construction of earth embankments for highways in West Siberia.

West Siberia.

Popov, B.I., et al, International Conference on Permafrost, 3rd, Edmonton, Alberta, July 10-13, 1978.

English translations of the forty-nine Soviet papers, the one French paper, and the three invited Soviet theme papers, Part 2, Ottawa, Canada, National Research Council, Mar. 1980, p.269-281, For Russian original see 32-3789.

Roads, Embankments, Permafrost beneath struc-

tures, Pavements, Swamps, Peat, Thermal insulation, Cellular plastics.

Construction by the method of stabilizing perennially

frozen foundation soils.

Porkhaev, G.V., et al, International Conference on Permafrost, 3rd, Edmonton, Alberta, July 10-13, 1978.
English translations of the forty-nine Soviet papers. the one French paper, and the three invited Soviet theme papers, Part 2, Ottawa, Canada, National Re-search Council, Mar. 1980, p.283-296, 5 refs. For Russian original see 32-3790. Buildings, Foundations, Permafrost beneath struc-

tures, Active layer, Permafrost control, Artificial freezing, Thermopiles. Ventilation, Crawl spaces.

34-3253

Long-term settlement of foundations on permafrost. Vialov, S.S., International Conference on Permafrost, 3rd, Edmonton, Alberta, July 10-13, 1978. English translations of the forty-nine Soviet papers, the one French paper, and the three invited Soviet theme papers, Part 2, Ottawa, Canada, National Research Council, Mar. 1980, p.297-311, 4 refs. For Russian original see 32-3796

Foundations, Permafrost beneath structures, Frozen rock temperature, Settlement (structural), Tests.

Hydrodynamic and hydrochemical assessment of ex-

Hydrodynamic and hydrochemical assessment of explosions used in testing low-output wells in permafrost regions.

Maksimov, V.M., International Conference on Permafrost, 3rd, Edmonton, Alberta, July 10-13, 1978. English translations of the forty-nine Soviet papers, the one French paper, and the three invited Soviet theme papers, Part 2, Ottawa, Canada, National Research Council, Mar. 1980, p.313-320, 8 refs. For Russian original see 32-3797.

Water supply, Wells, Suprapermafrost ground water, Subpermafrost ground water, Blasting, Hydrodynamics, Water chemistry.

34-3255
Stability of underground workings in permafrost.
El'chaninov, E.A., et al, International Conference on
Permafrost, 3rd, Edmonton, Alberta, July 10-13, 1978.
English translations of the forty-nine Soviet papers. English translations of the forty-nine Soviet papers, the one French paper, and the three invited Soviet theme papers, Part 2, Ottawa, Canada, National Research Council, Mar. 1980, p.321-337, 2 refs. For Russian original see 32-3799. Shor, A.I., Rozenbaum, M.A. Earthwork, Mining, Frozen rock temperature, Temperature control, Shafts (excavations), Walls, Stability.

34-3256

Water thawing of frozen ground for open pit and underground mining in the northeast of the USSR. Emelianov, V.L. et al. International Conference on

Emelianov, V.I., et al, International Conference on Permafrost, 3rd, Edmonton, Alberta, July 10-13, 1978. English translations of the forty-nine Soviet papers, the one French paper, and the three invited Soviet theme papers. Part 2, Ottawa, Canada, National Re-search Council, Mar. 1980, p.339-354, 15 refs. For Russian original see 32-3800.

Perl'shtein, G.Z. Earthwork, Artificial thawing, Mining, Ground thawing, Analysis (mathematics).

Permafrost-hydrogeological zoning of eastern Siberia.

Mel'nikov, P.1., et al, International Conference on Permafrost, 3rd, Edmonton, Alberta, July 10-13, 1978. English translations of the forty-nine Soviet papers, the one French paper, and the three invited Soviet theme papers. Part 2, Ottawa, Canada, National Re-search Council, Mar. 1980, p.355-378, 15 refs. For Russian original see 34-1680.

Tolstikhin, O.N

Permafrost distribution. Hydrogeology, Geocryology. 34-3258

Interaction between permafrost and buildings.

Vialov, S.S., International Conference on Permafrost, 3rd, Edmonton, Alberta, July 10-13, 1978. English translations of the forty-nine Soviet papers, the one French paper, and the three invited Soviet theme papers. Part 2, Ottawa, Canada, National Research Council, Mar. 1980, p.379-406, 6 refs. For Russian original see 34-1683.

Foundations. Deformation. Permafrost beneath structures. Piles, Thermal analysis.

34-3259

Design, construction and operation of earth dams in

Design, construction and operation of earth dams in Arctic regions and under permafrost conditions.

Tsytovich, N.A., et al. International Conference on Permafrost, 3rd, Edmonton, Alberta, July 10-13, 1978. English translations of the forty-nine Soviet papers. the one French paper, and the three invited Soviet theme papers, Part 2, Ottawa, Canada. National Research Council, Mar. 1980, p.407-428, 30 refs. For Russian original see 34-1684. Kronik, IA.A., Bilanov, G.F.

Earth dams, Permafrost beneath structures, Cold

weather construction.

34-3260

Nature and importance of mass-wasting by rock glaciers in alpine permafrost environments.

Barsch, D., Earth surface processes, Apr.-Sep. 1977, 2(3), p.231-245, 34 refs.

Rock glaciers, Alpine glaciation, Permafrost, Talus, Glacier mass balance, Glacier flow.

Development of a laboratory set-up to measure creep induced by freeze-thaw cycles.

Steijn, H. van, Earth surface processes, Apr-Sep. 1977, 2(3), p.247-250, 12 refs. Soil creep, Freeze thaw cycles, Rheology, Frozen ground mechanics, Tests.

34-3262 actors relating to the landslide process in Canadian

Quickelays. Smalley, 1., Earth surface processes, Apr. June 1976. 1(2), p.163-172, 50 refs.

Clay soils, Soil mechanics, Slope stabilit, Rheology, Quaternary glaciation, Postglacial soils.

34-3263

Simplified model for prediction of nitrogen behavior

in land treatment of wastewater.
Selim, H.M., et al, U.S. Army Cold Regions Research and Engineering Laboratory, Apr. 1980, CR 80-12, 49p., ADA-085 191, 23 refs. Iskandar, I.K.

Waste treatment, Water treatment, Nutrient cycle, Soil chemistry, Nitrogen.

Soil chemistry, Nitrogen.

A simplified model for simulation of mitrogen transformations and transportation in land treatment of wastewater is presented. The purpose of the model is to predict the behavior of NH4-N and NO3-N in the soil profile in land treatment systems. The program is based on the solution of the transfort soil water flow equation simultaneously with the equations describing the transformation, transport, and plant uptake of nitrogen in the soil. The program is valid for uniform as well as multilayered soil profiles and can be adapted to incorporate various nitrogen transformation mechanisms and boundary conditions. The model can be used as a tool to predict the fate of nitrogen in land treatment systems. Model sensitivity to changes in the rate of nitrification, ammonium ion exchange, and rate of plant uptake of nitrogen is also described. Description of the computer program, the program listing, and an example of input data and a two-week computer simulation of output data are presented

Freezing temperature of aqueous solutions containing formamide, acetamide, propionamide and N.N-dimethylformamide.

Lilley, T.H., et al, Journal of physical chemistry 1980, 76(4), p.901-905, 8 refs. Wood, R.H.

Solutions, Freezing points, Thermodynamics, Enthalpy, Heat capacity.

Design of concrete structures for thermal effects.
Pajuhesh, J., American Concrete Institute. Journal,
Mar.-Apr. 1980, No.2, p.74-77, 3 refs.
Concrete structures, Thermal effects, Relaxation (me-

chanics), Analysis (mathematics).

34-3266

Zero-energy house: bold, low-cost breakthrough that may revolutionize housing.

Dallaire, G., Civil engineering, May 1980, 52(5), p. 47-

Thermal insulation, Houses, Heat loss

34-3267

Natural waters, lithogenesis and relief, Pritoduve

vody, porodoobrazovanie i rel'efj. Zorin, L.V., Moscow, Nauka, 1979, 167p., In Russian with English table of contents enclosed Refs. p. 155-

Glacial deposits, Glacial erosion, Moraines, Sedimentation, Permafrost origin, Ground ice, Permafrost hydrology, Permafrost weathering, Glaciers.

34-3268 Gramna Lakes in the Baykal Amur railroad area. (Gramninskie ozera v zone vlijanija rassy BAM). Mats, V.D., et al, Novosibirsk, Nauka, 1980, 87p., In

Russian with English table of contents enclosed Glacial deposits, Moraines, Glacial lakes, Limnology,

Subglacial observations, Baykal Amur railroad, Alpine landscapes, Taiga, Alpine tundra, Plant ecology, USSR—Baykal Range.

34-3269

Manual for designing water supply and sewage systems in permafrost areas. Spravochnik po prock-tirovaniju sistem vodosnabzhenija i kanalizatsij v

tirovaniiu sistem vodosnabzheniia i kanalizatsii v ralonakh vechnomerzlykh gruntov<sub>3</sub>. Fedorov, N.F., et al. Leningrad, Strolizdat, 1979, 159p., In Russian with English table of contents enclosed. 22 refs. Zaborshchikov, O.V. Manuals, Water treatment, Water supply, Waste disposal, Sewage, Sewage treatment, Pipelines, Pipelaying, Permafrost beneath structures, Design. 34,3270. 34-3270

Soil stabilization and water impervious screens in hydroelectric engineering. (Zakreplenie gruntov protivofil tratsionnye zavesy v gidroenergeticheskom

stroite/stvej.
Adamovich, A.M., Moscow, Energia, 1980, 319p. In
Russian with English table of contents enclosed. 197

Earth dams, Waterproofing, Artificial freezing, Winter concreting, Grouting, Electric power, Cold weather construction, Hydraulic structures, Dams.

34-3271

Meteorological research.

Borisenkov, E.P., ed, Washington, Transemantics,
July 1976, 133p., N76-27786, Translation of
meteorologicheskie issledovaniia, No.20, 1975. For meteorologicheskie issiedovania, No.20, 1975 For individual articles see F-23319 through F-23323 and I-23324, or 34-3272 through 34-3276 For Russian original see 9F-16958 through 9F-16962 and 91-16963, or 30-3940 through 30-3944. Refs. passim Sea ice distribution, Spacecraft, Antarctica.

Sea ice distribution, Spacecraft, Antarctica. This collection of works contains material dealing with the utilization of meteorological satellites for the investigation of polar regions. In it, light is thrown on questions pertaining to the use of microwave equipment for investigating Atlantic ice and for determining the temperature of the underlying surface, the use of television equipment for the determination of cloud and see fields in the Arctic and Antarctic regions, as well as for the comprehensive analysis of landscapes, the use of data on outgoing radiation for the determination of average-temperature fields and the restoration of arcological data, questions pertaining to identification and geographic control of the data to identification and geographic control of the data ing to

34-3272

. "

Antarctic ice characteristics according to Kosmos-243

satellite radiometric measurements.
Matveey, D.T., Meteorological research, Washington. Transemantics, July 1976, p.5-12, N76-27 Russian original see 9F-16958 or 30-3940.

Sea ice distribution, Spacecraft, Radiometry, Antarc-

See Manderstreet Last street

I sperimental data are presented on antarctic ice characteristics through measurements carned out from the Coomis-243 satellite. Heat radiation measurements were done in the 0.8 cm 1.34 cm, 34 cm and 8.5 cm bands. The results are compared with average data on the position of the ice barrier. (Auth) 34-3273

Characteristics of the antarctic temperature field ac-cording to Kosmos 243 satellite radiometric measurements.

Kurskaia, A.A., Meteorological research, Washington, Transemantics, July 1976, p.13-20, N76-27786, For Russian original see 9F-16959 or 30-3941. 2 refs. Sea ice, Ice shelves, Ice sheets, Ice temperature, Radiometry, Spacecraft, Antarctica.

Experimental data are presented and an analysis made of rad-obrightness temperatures above the ice sheet of Antarctica ac-cording to Cosmos-2/3 data. A considerable inhomogeneity of the temperature field as shown. (Auth.)

### 34.3274

Ice environment of the antarctic region according to

Cosmos-226 satellite data.

Leont'eva, A.V., Meteorological research, Washington, Transemantics, July 1976, p.21-28, N76-27786, For Russian original see 9F-16960 or 30-3942.

Sea ice distribution, Antarctica.

Sea ice distribution, Antarctica.

A photomontage of the conditions in the Antarctic is presented It is composed from television pictures taken by Cosmos-226 in November 1968. A short description of the state of the is given and peculiarities of the photographic images are noted (Auth.)

## 34-3275

Ice conditions in the Antarctic in the summer of 1968-

Provorkin, A.V., et al, Meteorological research, Washington, Transemantics, July 1976, p.29-44, N76-27786, For Russian original see 9F-16961 or 30-3943. Dubrovin, L.I.

# Sea ice distribution, Antarctica.

Average monthly charts of acc conditions in the Southern Ocean in Nov and Dec 1968 and Jan 1969 are compiled according to television pictures taken from the Cosmos-226 co. 11 - The results of the interpretation of the animarked changes in the contours in several sections of the animarked changes. taretic coast (Auth )

Ice mesovortices in the nearshore regions of East An-

Preobrazhenskaia, T.N., Meteorological research, Washington, Transemantics, July 1976, p.45-54, N76-27786, For Russian original see 9F-16962 or 30-3944. Sea ice distribution, Ocean currents, Atmospheric circulation, Antarctica—East Antarctica.

The article deals with the results of a study of meso- and micro-vortices in the coastal regions of Antarctica according to meteorological satellite data. Vortices of the second type are related to the peculiarities and orography of the glacier slope. These vortices present accumulations of snow and ice drawn in by winds blowing from the continent. (Auth.)

# 34.3277

Environmental protection in economic development of permafrost areas. [Okhrana okruzhaiushche) sredy

pri osvoenii oblasti mnogoletnemerzlykh porodj. Grave, N.A., ed. Moscow, Nauka, 1980, 146p., In Russian. For individual papers see 34-3278 through 34-3300. Refs. passim.

Environmental protection, Human factors engineering, Permafrost tore asting, Tundra, Forest tundra, Taiga, Soil erosion, Permafrost transformation, Urban planning, Construction, Mining 34-3278

Forecasting changes in geocryologic conditions during economic development of permafrost areas. [Prognoz izmenenija geokriologicheskikh uslovil pri proizvodstvennom osvoenij territorij v oblasti raspros-

traneniia mnogoletnemerzlykh porod, Kudriavtsev, V.A., Okhrana okruzhaiushchel sredy pri osvoenii oblasti mnogoletnemerzlykh porod (Environmental protection in economic development of perma-frost areas) edited by N.A. Grave, Moscow, Nauka, 1980, p.5-12, In Russian. Permafrost forecasting, Environmental protection,

Human factors engineering.

Forecasting changes in engineering-geocryological conditions induced by economic development of the north taiga zone in West Siberia. (Opyt prognoza iz-meneniia inzhenerno-geokriologicheskikh uslovi) pod vliianiem khozialstvennoi deiatel nosti v severo-taezhnot zone Zapadnot Sibirij. Grechishehev, S.E., et al, Okhrana okruzhajushehet

sredy pri osvoenii oblasti mnogoletnemerzlykh porod (Environmental protection in economic development of permafrost areas) edited by N.A. Grave, Moscow, Nauka, 1980, p.12-19, In Russian. 3 refs.
Permafrost forecasting, Environmental protection, Taiga, Human factors, Analysis (mathematics).

### 34.3280

Studying changes in permafrost conditions due to con-struction in the Ust'-Illimsk area. (Izuchemie iz-meneniaa merzlotnykh uslovit v khode osvoenna ter-

Maksimova, L.N., et al, Okhrana okruzhajushchet sredy pri osvoenii oblasti mnogoletnemerzlykh porod (Environmental protection in economic development of permafrost areas) edited by N.A. Grave, Moscow, Nauka, 1980, p. 19-25. In Russian.

Boiarskii, O.G., Dubrovin, V.A.

Human factors engineering, Permafrost transformation, Permafrost forecasting, Environmental protection, Urban planning, Microclimatology.

Making artificial intergelisols as a means of environmental protection in petroleum provinces of West Si-beria and the northern Komi ASSR. (Ustroistvo iskusstvennykh pereletkov v Zapadnot Sibiri i na severe Komi ASSR kak meropruatie po sokhraneniu prirod-nol sredy v ratonakh neftianykh promyslov<sub>1</sub>.

Maksimov, G.N., Okhrana okruzhaiushchet sredy pri osvoenii oblasti mnogoletnemerzlykh porod (Environosvoeni oblasti minogotetiemerziyan porod (Environ-mental protection in economic development of perma-frost areas) edited by N.A. Grave, Moscow, Nauka, 1980, p. 25-27. In Russian. 4 refs. Swamps, Drilling, Roads, Peat, Artificial freezing, Petroleum industry.

### 34-3282

Protection of environments and mineral resources in mined permafrost areas. [Voprosy okhrany okruzhai-ushcher sredy i nedr pri osvoenii mestorozhdenit poleznykh iskopaemykh v obtasti mnogoletnet mer

Maksimov, V.M., et al. Okhrana okruzhaiushchet sreay pri osvoenii oniasu mnogoietnemerziyku porod (Environmental protection in economic development

of permafrost areas) edited by N.A. Grave, Moscow. Nauka, 1980, p.27-36, In Russian Mining, Coal, Placer mining, Environmental protec-tion, Permafrost control, Permafrost hydrology, Petroleum industry, Drilling, Permafrost beneath struc-

Changes in geocryological conditions and permafrost forecasting in areas of mining exploration. [Izmenenie geokriologichesko! obstanovki na osvaivaemykh uchastkakh i ego prognoz pri razvedke mestorozhdenit poleznykh iskopaemykhj. Shvetsov, P.F., et al. Okhrana okruzhaiushchel sredy

pri osvoenii oblasti mnogoletnemerzlykh porod (Environmental protection in economic development of permafrost areas) edited by N.A. Grave, Moscow, Nauka, 1980, p.36-41, In Russian. 14 refs.

Mining, Active layer, Permafrost forecasting, Envi-ronmental protection, Permafrost control, Explora-

# 34-3284

Rational utilization of engineering and geological resources. [Problema ratsional nogo ispol'zovaniia inzhenerno-geologicheskikh resursovj. Demidiuk, L.M., Okhrana okruzhaiushchel sredy pri

osvoenii oblasti mnogoletnemerzlykh porod (Environmental protection in economic development of perma-frost areas) edited by N.A. Grave, Moscow, Nauka, 1980, p.42-50, In Russian.

Environmental protection, Mining, Construction, Permafrost hydrology, Permafrost beneath structures. Permafrost control.

# 34-3285

Environmental protection problems related to placer mining in the North. (Nekotorye voprosy okhruny okruzhaiushchei sredy v sviazi s tarrabotkoi rossyp-nykh mestorozhdeni Severa, Olovin, B.A., Okhrana okruzhaiushchei sredy pri os-

voenii oblasti mnogoletnemerzlykh porod (Énvironmental protection in economic development of perma-frost areas) edited by N.A. Grave, Moscow, Nauka, 1980, p.50-55, In Russian.

Placer mining, Transportation, Environmental protection, Soil erosion, Taiga, Tundra

### 14-3286

Some technical solutions for environmental protection of construction and mining sites in permafrost areas. Nekotorye tekhnicheskie reshenia po okhrane okruzhaiushchel sredy pri stroitel'stve i ekspluatatsii gornodobyvaiushchikh predpriiatil v ratonakh mnogo-

letnei merzlotyj, El'chaninov, E.A., et al, Okhrana okruzhajushchej sredy pri osvoenii oblasti mnogoletnemerzlykh porod (Environmental protection in economic development of permafrost areas) edited by N.A. Grave, Moscow, Nauka, 1980, p.55-60, In Russian.

Environmental protection, Construction, Mining, Human factors engineering, Permafrost transforma-

## 34-3287

Environmental protection problems on pipeline construction sites. (Problemy sokhraneniia okruzhaiush-chet sredy pri stroitel'stve truboprovodov), Spiridonov, V.V., et al, Okhrana okruzhaiushchet

sredy pri osvoenii oblasti mnogoletnemerzlykh porod (Environmental protection in economic development of permafrost areas) edited by N.A. Grave, Moscow, Nauka, 1980, p.60-66, In Russian. Semenov, L.P

Permafrost beneath structures. Human factors engineering, Environmental protection, Pipelines, Roads.

### 34.3288

Consequences of the disturbance of natural environments by the construction of linear structures in northern West Siberia. Narusheniia prirodnol sredy i ikh posledstviia pri stroitel'stve linetnykh sooruzhenii

na severe Zapadnol Sibirij. Sukhodol'skii, S.E., Okhrana okruzhaiushchel sredy rri osvoenii oblasti mno oletnemerzi, kh. orod (Environmental protection in economic development of per-matrost areas) edited by N.A. Grave, Moscow, Nauka, 1980, p.67-71. In Russian. Permafrost beneath structures, Taiga, Forest tundra,

Environmental protection, Pipelines, Roads, Rail-

## 34-3289

Typical natural environment disturbances in northern West Siberia due to construction of linear structures and forecasts of their development. [Tipichnye narusheniia prirodnykh kompleksov severa Zapadnot Sibiri pod vlijanjem linelnogo stroiteľstva i prognoz ikh dinamikij.

Moskalenko, N.G., et al. Okhrana okruzhajushchej sredy pri osvoenii oblasti mnogoletnemerzlykh porod (Environmental protection in economic development of permafrost areas) edited by N.A. Grave, Moscow, Nauka, 1980, p.71-78, ln Russian 7 refs. Shur, H. L.

Permafrost beneath structures, Taiga, Swamps, Environmental protection, Pipelines, Roads.

Environmental protection problems on the Baykal Amur railroad construction sites. [Problemy okhrany okruzhajushchel sredy pri dorozhnom stroitel'stve (na primere Balkalo-Amurskot magistrali);.
Alekseev, V.R., et al. Okhrana okruzhajushchel sredy

pri osvoenii oblasti mnogoletnemerzlykh porod (Environmental protection in economic development of per-mafrost areas) edited by N.A. Grave, Moscow, Nauka,

1980, p.78-84. In Russian. Lugovot. P.N., Mikhailov, N.A., Sokolov, A.A. Permafrost beneath structures, Permafrost preservation, Environmental protection, Baykal Amur rail-

Design of roads and railroads on natural bases in the southern permafrost distribution zone. [Ispol'zovanie estestvennykh osnovanil pri proektirovanii zem-lianogo polotna zheleznykh i avtomobil'nykh dorog v iuzhnol zone rasprostranenna mnogoletnemerzlykh gruntov<sub>1</sub>.
Potatueva, T.V., Okhrana okruzhajushchej sredy pri

osvoenii oblasti mnogoletnemerzlykh porod (Environmental protection in economic development of perma-frost areas) edited by N.A. Grave, Moscow, Nauka, 1980, p.84-90, In Russian.

Design, Roadbeds, Embankments, Permafrost bases, Roads, Railroads.

The water manual to which

R .

Environmental protection problems related to the construction of embankments and porous fills on per-mafrost. (Voprosy othrany okruzhajushchel sredy sviazi s ustroistvom nasypel i poristykh podsypok na

vechnomerzlykh gruntakhj. Kaganovskaia, S.E., Okhrana okruzhaiushchel sredy pri osvoenii oblasti mnogoletnemerzlykh porod (Environmental protection in economic development of permafros areas) edited by N.A. Grave, Moscow, Nauka, 1980, p.90-94, In Russian. 4 refs.
Swamps, Roads, Embankments, Rock fills, Perma-

frost beneath structures, Environmental protection.

14-1701

Influence of cities on natural and climatic factors under polar conditions. (Vlnanic goroda na prirodno-klimaticheskie faktory v usloviiakh Zapoliar ia). Gorbacheva, V.M., Okhrana okruzhaiushchel sredy pri osvoenii oblasti mnogoletnemerzlykh porod (Environmental protection in economic development of permafrost areas) edited by N.A. Grave, Moscow, Nauka, 1980, p.94-99, In Russian. 5 refs

Urban planning, Permafrost beneath structures, Buildings, Roads, Permafrost control, Human factors engincering.

34-3294

Influence of economic development on changes in environmental conditions of Arctic regions. [Vliianie khoziatstvennot deiateľ nosti na izmenenie prirodnykh

khoziansteanna denter uslovih arkticheskikh oblasteh, Neizvestnov, IA.V., et al. Okhrana okruzhaiushchel sredy pri osvoenii oblasti imnogoletnemerzlykh porod programa okruzhaiushchel sredy pri osvoenii oblasti imnogoletnemerzlykh porod programa development. (Environmental protection in economic development

of permafrost areas) edited by N.A. Grave, Moscow, Nauka, 1980, p.100-102, In Russian. 2 refs. Human factors, Sewage disposal, Thermokarst devel-

opment, Polar regions.

34-3295 Protecting rivers in the Kolyma Basin from pollution with solid suspensions by electrochemical coagulation treatment of mining waste waters. (Zashchita rek basseIna Kolymy ot zagriazneniia tverdymi vzvesiami (na primere ochistki tekhnologicheskikh vod priiskov

metodom elektrokhimicheskoi koaguliatsii)<sub>1</sub>, Novozhilov, V.N., et al, Okhrana okruzhaiushchel sredy pri osvoenii oblasti mnogoletnemerzlykh porod (Environmental protection in economic development of permafrost areas) edited by N.A. Grave, Moscow, Nauka, 1980, p.102-107, In Russian.

Dvoskin, G.A., Kotova, M.S., Shemiakin, V.N. Human factors engineering, Mining, Waste disposal, Water treatment, Water pollution, Subarctic land-

34-3296

Cryogenic hydrogeochemical changes in alluvial deposits due to economic development of Central Yakutia. Kriogennye gidrogeokhimicheskie iz-meneniia alliuvial'nykh otlozhenil pri khozialstven-

nom osvoenii Tsentral'noi IAkutii, Anisimova, N.P., Okhrana okruzhaiushchei sredy pri osvoenii oblasti mnogoletnemerzlykh porod (Environmental protection in economic development of perma-frost areas) edited by N.A. Grave, Moscow, Nauka, 1980, p.107-111, In Russian. 3 refs.

Economic development, Human factors engineering, Permafrost weathering, Permafrost hydrology, Permafrost control, USSR-Yakutia.

Restoration of natural landscapes disturbed by human activities. [Rekul'tivatsiia narushennykh v rezul'tate deiatel'nosti cheloveka prirodnykh landshaftov; Liverovskii, IU.A., et al. Okhrana okruzhaiushchei sredy pri osvoenu oblasti mnogoletnemerzlykh porod (Environmental protection in economic development of permafrost areas) edited by N.A. Grave, Moscow,

Nauka, 1980, p.111-115, in Russian.
Popov, A.I., Smirnov, V.V.
Environmental protection, Soil erosion, Human factors engineering, Revegetation, Polar regions.

14.1298

Changes in the properties of soils in the eastern foot-hills of the Polar Ural Mountains and the adjacent plain caused by construction of linear structures. [1/menenie svolsty pochy vostochnykh predgorit Poliarnogo Urala i prilegaiushchet ravniny v sviazi so stroitel'stvom lineinogo sooruzheniiaj. Liverovskaia, I.T., Okhrana okruzhaiushchet sredy pri

osvoenii oblasti innogoletnemerzlykh porod (Environmental protection in economic development of permafrost areas) edited by N.A. Grave, Moscow, Nauka, 1980, p.116-121, In Russian. 9 refs.

Permafrost beneath structures, Soil erosion, Revege-

tation, Environmental protection, Roads, Pipelines. 14.1700

Disturbance of natural environments by construction of linear structures and the first stages of restoration of soil and vegetational covers. ¡Narusheniia prirodnol sredy i pervye stadii vosstanovleniia pochvenno-rastitel nogo pokrova pri nekotorykh vidakh lineInogo

stroitel'stvaj, Smirnov, V.V., et al, Okhrana okruzhaiushchet sredy pri osvoenii oblasti mnogoletnemerzlykh porod (Envipri osvoeni obasii imiogotenienie rzykin porou (Envi-ronmental protection in economic development of per-mafrost areas) edited by N. A. Grave, Moscow, Nauka, 1980, p.121-127, In Russian. 4 refs. Environmental protection, Revegetation, Tundra, Forest tundra, Soil erosion, Polar regions.

34.3300

Root systems of sodding plants and their role in the restoration of vegetational cover disturbed by economic activities. [Kornevye sistemy rastenil-zader-nitele, i ikh znachenie dlia vosstanovlenija rastitel'nogo pokrova narushennogo pri khozialstvennom osvoenii territoriij. Vital', A.D., Okhrana okruzhaiushchel sredy pri osvo-

enii oblasti mnogoletnemerzlykh porod (Environmental protection in economic development of permafrost areas) edited by N.A. Grave, Moscow, Nauka, 1980, p.128-133, In Russian. 6 refs.

Tundra, Forest tundra, Human factors engineering,

Soil erosion, Revegetation, Arctic landscapes.

34.3301

Telemeasurement of ice cover parameters, Distantsionnye izmereniia parametrov ledianogo pokrova<sub>1</sub>, Leningrad. Arkticheskii i antarkticheskii nauchnoinstitut. Trudy, 1977, Vol.343, 154p., In Russian. For individual papers see 34-3302 through 34-3318. Refs. passim.

Ice surveys, Ice reporting, Radar photography, Telemetering equipment, Side looking radar, Infrared equipment, Spaceborne photography, Arctic Ocean. 34-3302

Automatically controlled e information system for the Arctic (ALISA). ¡Avtom: dzirovannaja ledovo-informatsionnaja sistema dlia Arktiki (ALISA)<sub>1</sub>, Bushuev, A.V., et al, Leningrad. Arkticheskhi i antarkticheskhi nauchno-issledovateľskhi institut. Trudy, 1977, Vol.343, p.6-16, In Russian. 4 refs. nauchno-issledovateľsků institut. Vol. 343, p.6-16, In Russian. 4 refs. Ice navigation, Ice reporting, Ice surveys, Telemetering equipment, Design, Arctic Ocean.

34-3303

External orientation of satellite scanning radiometer photographs. (Opredelenie elementov vneshnego orientirovanija snimkov skanirujushchikh radiometrov

Bushuev, A.V., Leningrad. Arkticheskii i antarkti-cheskii nauchno-issledovatel'skii institut. Trudy, 1977, Vol.343, p.17-25, In Russian. 4 refs.

Radar photography, Spaceborne photography, Photointerpretation, Orientation, Ice surveys

34-3304

Determining ice cover characteristics from spaceborne photographs of scanning infrared radiometers. [Opredelenie kharakteristik ledianogo pokrova po sputnikovym snimkam skanirujuslichikh infrakras-

mykh radiometrov<sub>1</sub>,
Masanov, A.D., Leningrad, Arktichesků i antarktichesků nauchno-issledovateľsků institut. Trudy,

1977, Vol. 343, p. 26-33, In Russian. 7 rcfs. Spaceborne photography, Radar photography, Photointerpretation, Infrared equipment, Radiometry. 34-3305

Compiling ice maps from photographs made by meteorological satellites, ¡Ispol'zovanie snimkov połuchennyk h s meteorologicheskikh sputnikov v ka-

chestve osnovy die sostavleniia ledovykh karty, Provorkin, A.V., Lennigrad, Arkticheskh i antarkti-cheskh nauchno-issledovatei sh institut. Trudy, 1977, Vol.343, p.34-39, In Russian. Spaceborne photography, Ice surveys, Charts, Ice

navigation.

34-3306

Using microwave satellite measurements for mapping sea ice. [Ispol zovanie mikrovolnovykh sputnikovykh izmerenii dlia kartirovania morskikh I dovj. Loshchilov, V.S., Lenngrad Arkticheskii rantatkti-cheskii nauchno-issledovatel skii institut — Tridy 1977, Vol.343, p.40-45, In Russian. 7 refs

Sea ice, Mapping, Ice navigation, Spaceborne photography, Radar photography, Ice surveys.

34.3307

Analytic coordination of areal and route radar surveys. Analiticheskoe koordinirovanie ploshchadnykh i marshrutnykh radiolokatsionnykh s''emokj. Bushuev, A.V., Leningrad Arkticheskii i antarkti cheskii nauchno-issledovatel skii institut Trudy. 1977, Vol.343, p.46-57, In Russian 4 refs Drift, Radar photography, Side looking radar, Ice surveys, Sea ice.

34-3308

Accuracy of geographic correlation of Toros side looking radar photographs. [Tochnost' geografichesker priviazki snimkov radiolokatsionnot stantsii bokovogo

obzora "Toros"; Borisov, R.A. et al. Leningrad Arkticheskii rantark ticheskii nauchno-issledovatel skii institut. Trudy 1977, Vol. 343, p. 58-64, In Russian 3 refs Bychenkov, IU D

Ice surveys, Aerial surveys, Sea ice.

34-3309

Operational analysis of the drift and deformation of ice cover from repeated areal radai survey photo-graphs. [Operativny) analiz dreifa i deformatsii ledichogo pokrova po materialam povtornykh radi-olokatsionnykh ploshchadnykh stemoki,

Borisov, R.A., et al, Leningrad Arkticheskii vantark-ticheskii nauchno-issledovatel skii institut Irudy. 1977, Vol.343, p.65-74, In Russian. Loshchilov, V.S. 5 refs

Sea ice. Drift, Ice deformation, Ice surveys, Radar photography.

34-3310

Data on medium-scale deformations of ice covers in Arctic seas. [Nekotorye dannye o stednemasshtabnot deformatsii ledianogo pokrova arkticheskikh moreij. Gorbunov, IU.A., et al., Leningrad. Arkticheskii van tarkticheskii nauchno-issledovateľskii institut Trudy, 1977, Vol.343, p.75-91, In Russian 7 refs Losey, S.M.

Sea ice, Ice deformation, Drift, Ice surveys.

34-3311

Studying morphometric characteristics of summer ice cover in Arctic seas. (Ob issledovanii nekotorykh mor-fometricheskikh kharakteristik ledianogo pokrova v

arkticheskikh moriakh v letnii period). Losev, S.M., et al. Leningrad. Arkticheskii i antarkti-cheskii nauchno-issledovatel skii institut. Trudy. 1977, Vol.343, p.92-103, ln Russian. 6 refs. Gorbunov, IU.A.

Sea ice. Drift, Ice deformation, Ice surveys, Aerial surveys, Side looking radar.

Video-pulse radiometer of sea ice thickness as a promising means of ice surveying. [Radiolokatsionny) videoimpul'snyl izmeritel' tolshchiny morskogo l'da kak novoe perspektivnoe sredstvo ledovot razvedkij,

Finkel'shtein, M.L. et al, Leningrad. Arkticheskii i antarkticheskii nauchno-issledovatel'skii institut. Trudy, 1977, Vol.343, p.104-113, ln Russian. 7 tefs Lazarev, E.I.

Sea ice, Ice surveys, Ice cover thickness, Ice surface. Surface roughness, Ice salinity, Radar echoes

34-3313

Using radar equipment for measuring ice cover thickness in ice surveys. [Nekotorye rezul'taty ispol' zovanija radiolokatsionnogo videoimpul'snogo izmeri-telia tolshehiny morskogo l'da dlia ledovot razvedkij. Bushuev, A.V., et al. Leningrad. Arkticheskii i an tarkticheskii nauchno-issledovateľskii institut tarkticheskii nauchno-issledovatel'skii institut Trudy, 1977, Vol.343, p.114-121, ln Russian. 3 refs Lazarev, E.L., Finkel'shtein, M.I. Sea ice, Ice surveys, Ice cover thickness, Rador

echoes.

34-3314

Airborne laboratory for studying White Sea ice. [1ssledovanie morskikh l'dov Belogo moria s pomoshe-h'iu letaiushchel laboratoriij.

Kurskaia, A.A., Leningrad. Arkticheskii i antarkti-cheskii nauchno-issledovatel'skii institut. Trudy, 1977, Vol. 343, p. 122-126, In Russian.

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Sea ice, Ice surveys, Airborne equipment.

34.3315

Studying grounded ice hummocks from aerial photographs. [Izuchenie stamukh po aerofotosnimkain], Losev, S.M., et al, Leningrad. Arkticheskii i antarkti-cheskii nauchno-issledovateľskii institut. Trudy, 1977, Vol 343, p 127-132, In Russian. 5 refs. Gorbunov, IU.A.

Sea ice. Ice surveys, Photography, Airborne equipment.

34-3316

Shifting of ice edges and ice cover boundaries. [O smeshchenii kromok l'da i granits ledianogo massivaj. Gorbunov, IU. A., et al. Leningrad. Arkticheskii i antarkticheskit nauchno-issledovatel/skit institut Trudy, 1977, Vol 343, p. 133-140, In Russian - 3 refs Losey, S.M.

Sea ice, Drift, Ice edge, Aerial surveys, Ice surveys, lce forecasting.

Testing a numerical scheme for calculating winter ice distribution in Arctic seas. (Rezul'taty ispytantia chislennot skhemy rascheta raspredeleniia l'da v arktiches-

kikh monakh zimolj. Appel', I L., et al, Leningrad at Trudy, 5 refs cheskii mauchio-issledovatelskii institut Trudy, 1977, Vol.343, p.141-150, In Russian 5 refs Gudkovich, Z.M., Teitel baum, K.A. Sea ice, Ice surveys, Drift, Ice cover thickness, Ice

surface, Pressure ridges, Arctic Ocean.

34-3318

Using statistical characteristics of radar photographs of ice covers for their recognition. [Ispol'zovanie statisticheskikh kharakteristik radiolokatsionnykh izobrazhenit l'dov dha ikh raspoznavaniia),

Aleksandrov, V.IU., et al. Leningrad. Arktichesků i antarktichesků nauchno-issledovateľsků institut. Trudy, 1977, Vol.343, p.151-154, in Russian. 4 refs. Bushuev, A.V.

Ice surveys. Sea ice, Radar photography, Side looking radar, Photointerpretation, Computer applications.

34-3319

Backscatter and emission of snow: literature review and recommendations for future investigations.
Ulaby, F.T., et al., Remote Sensing Laboratory, RSL

Technical Report 369-1, Lawrence, University of Kansas Center for Research, Inc., June 1978, 138p., 3 refs. Fung, A.K., Stiles, W.H.

Backscattering, Snow electrical properties, Snow cover effect, Microwaves, Dielectric properties.

Variability of the tide at some sites in the Canadian Arctic.

Godin, G., et al, Arctic, Mar. 1980, 33(1), p.30-37, 7 refs., In English with French summary. Barber, F.G.

Tides, Ice cover effect, Sea ice.

34-3321

Classification of the vegetation of Boothia Peninsula and the northern District of Keewatin, N.W.T. Thompson, D.C., Arctic, Mar. 1980, 33(1), p.73-99, 30 refs. In English with French summary.

Vegetation, Polar regions, Classifications, Canada— Northwest Territories—Keewatin District, Canada— Northwest Territories—Boothia Peninsula.

Illustration of the roles of snow in the evolution of the winter cover of a lake.

Adams, W.P., et al, Arctic, Mar. 1980, 33(1), p.100-116, 12 refs., In English with French summary.

Ecosystems, Snow cover effect, Ice cover effect, Lake ice.

Floating ice platforms for oil exploration in the Arctic Islands.

Ekelund, M.J., et al, Arctic, Mar. 1980, 33(1), p.168-In English with French summary. 183, 12 refs., In English with French summary. Masterson, D.M. Floating ice, Ice islands, Offshore drilling, Oil recov-

ery, Ice creep, Ice deformation, Artificial islands, Loads (forces), Static loads.

34-3324

Ice spirals off Barrow as seen by satellite. Solomon, H., et al. Arctic, Mar. 1980, 33(1), p.184-188, 7 refs., In English with French summary.

Sea ice distribution. Topographic features, Pack ice. Ice edge, Ocean currents, Remote sensing, United States—Alaska—Barrow. 34-3325

Wastewater treatment in cold regions by overland

Martel, C.J., et al, U.S. Army, Cold Regions Research and Engineering Laboratory, Feb. 1980, CR 80-7, 14p. ADA-084-489, 16 refs.

Jenkins, T.F., Palazzo, A.J. Waste treatment, Water treatment, Irrigation, Cold. weather performance, Engineering, Soil chemistry, Agriculture.

Agriculture.

Primary effluent, secondary effluent (package extended aeration) plant effluent with BOD's often greater than 30 mg liter) and tarwater were applied to separate sections of a pilot-scale overland flow site in a cold regions environment. The average application rate for each section was 5.0 cm (2.0 m.) per week. Performance was evaluated for one year, May 1977 to June 1978. Results of this study demonstrated that overland flow can renovate both primary and secondary effluent during spring, summer and fall seasons. However, during winter, run-off water quality from the primary section contained almost no pollutants during its entire operation. Ammonia was the easist form of introgen to remove and intrate was the most difficult. Rainstorins did not cause a "flushing" effect. However, ammonia and nitrate concentrations in the runoff increased during snowmelt. The forage yield from the primary and secondary sections was almost twic, that of a typical New Hampshire has field. Wastewater application during winter caused only minor cases of plant injury. Based on these results, a minimum of 30 days of storage is recommended if overland flow is used as a polishing process. If overland flow is used to treat primary effluent, the number of storage days predicted by EPA-1 computer program appears to be adequate.

High-explosive cratering in frozen and unfrozen soils

in Alaska.

Smith. N., U.S. Army Cold Regions Research and Engineering Laboratory, Feb. 1980, CR 80-9, 21p., ADA-084 702, 8 refs.

Frozen ground mechanics, Explosion effects, Seasonal freeze thaw, Taliks, Excavation, Tests.

sonal freeze thaw, Talliks, Excavation, Tests.

Explosive cratering tests were conducted in seasonally frozen and inawed gravel at Ft Richardson near Anchorage, Alaska, and a seasonally frozen and thawed silt overlying permafrost and in silt permafrost at Ft Wainwright near Fairbanks, Alaska Explosive charge weights ranged from 26 to 3120 lb, and charge burial depths ranged from about 3 to 40 ft. The cube root of the charge weight sealing was used to determine maximum scaled crater dimensions and optimum scaled depth of burial of the charge. Test results for frozen and thawed gravel were essentially the same because of the low moisture content and the relatively shallow depth of freezing (5 to 6 ft). The optimum depth of burial of the charge for maximizing the apparent radius and depth and the true radius was about 1.8 times the cube root of the charge weight for both the frozen and thawed conditions, in seasonally frozen silt overlying a talik and silt permafrost, the maximum scaled crater dimensions and optimum scaled burial depths of the charge were smaller than for the thawed condition except for the true crater dimensions. The channeling of energy in the talik produces maximum crater dimensions and an optimum burial depth for the true crater than for the thawed condition. The results for the homogeneous silt permafrost were very similar to the frozen gravel results, with much smaller maximum crater dimensions and smaller optimum charge burial depths than for the thawed silt overlying and the foreign gravel results, with much smaller maximum crater dimensions and smaller optimum charge burial depths than for the thaved silt overlying and the foreign gravel results, with much smaller maximum crater dimensions and smaller optimum charge burial depths than for the thaved silt overlying and the foreign gravel results, with much smaller maximum crater dimensions and smaller optimum charge burial depths than for the thaved silt overlying and the silt of the foreign gravel results. much smaller maximum crater dimensions and smaller op-timum charge burial depths than for the thawed silt overlying

Roof leaks in cold regions: school at Chevak, Alaska. Tobiasson, W., et al. U.S. Arm) Cold Regions Research and Engineering Laboratory, Apr. 1980, CR 80-11, 12p. ADA-084 914.
Johnson, P.R.

Roofs, Leakage, Buildings, Meltwater, Snow accumulation, Condensation, Subpolar regions.

Four types of roof leaks occurred at a new school building in Chevak, Alaska: 1) blowing snow entered the roof through eave vents and then melted, 2) slush and ice in roof valleys caused vents and then melted, 2) slush and ice in roof valleys caused meltwater to overflow the valley flashing and run into the building, 3) water entered at a roof/wall intersection and 4) in many areas water entered through gaps in the sloping plywood deck. Sealing the cave vents made it impossible for blowing snow to enter the roof at the eaves. Electric heat tancs eliminated the valley ucing problem. Missing flashing was responsible for the roof-wall intersection leaks. The absence of a vapor barrier in the roof was the cause of many leaks. It was recommended that the roof be repaired from the exterior by removing component elements down to the plywood deck, installing an adhered continuous vapor barrier and reassembling the roof. An alternative roof cladding of composition shingles was discussed as commous vapor partier and reassembling the roof. An alter-native roof cladding of composition shingles was discussed as was conversion to a "cold roof." The roof was repaired and modified following recommendations, and problems appear to have been solved. have been solved

34-3328

Coastal environment, bathymetry, and physical ocea-nography along the Beaufort, Chukchi and Bering

Gatto, L.W., U.S. Army Cold Regions Research and Engineering Laboratory, Jan. 1980, SR 80-5, 357p., ADA-084 281, 56 refs.

Coastal topographic features, Bathymetry, Marine geology, Shoreline modification, Oceanography, Environments.

The report con piles references, figures, and tables that are conthe report coll ones references, figures, and tables many con-cerned with the coastal environment, bath purely, and physical occumpraphy along the Beautort. Chukchi, and Bering Seas The text, intentionally minimized, describes the salient points with a minimum of detail. The extensive references and figures give direction to a reader seeking additional information

Documentation for a two-level dynamic thermody-

namic sea ice model. Hibler, W.D., III, U.S. Army Cold Regions Research and Engineering Luboratory, Feb. 1980, SR 80-8, 35p., ADA-084 273, 9 refs

Sea ice, Ice thermal properties, Thermodynamic properties, Heat transfer, Ice mechanics, Ice cover thickness, Mathematical models, Computer programs, Rheology.

A discussion of the numerics and computer code for a two-level dynamic thermodynamic sea ice model is presented. For interested users a listing of the computer code and results from a 21-day test run are included as appendices. To a large degree this report is meant to serve as an extended appendix to an article by the author in the Journal of Physical Oceanography (see 34-741) describing his model and a variety of simulation results. The model consists of a two-level ice thickness distribution coupled to the ice dynamics by a plastic theology. In addition to the ice interaction, the momentum balance includes nonlinear wind and water drag terms. Corrolls force, and inertial and momentum advection terms. The numerical scheme is formulated in an energy-conserving manner in a fixed Eulerian grid which allows simulation over unlimited time intervals. The momentum balance (including inertial terms) is numerically treated in a semi-implicit manner so that time steps of up A discussion of the numerics and computer code for a two-level cally treated in a semi-implicit manner so that time steps of up to one day in length may be used if desired. The boundaries, grid size and time step magnitude are easily modified so that the model should have application to a variety of climate an 'forecasting problems

Ice thickness-tensile stress relationship for load-bearing ice.

Johnson, P.R., U.S. Army Cold Regions Research and Engineering Laboratory, Feb. 1980, SR 80-9, 11p. ADA-084 274, 3 refs.

Ice cover strength, Ice loads, Ice crossings, Ice roads,

Ice cover strength, Ice loads, Ice crossings, Ice roads, Tensile properties, Stresses, Ice cover thickness. The "bearing capacity" of a floating ice sheet is of considerable interest. The pattern of ice thickness vs tensile stress for a fixed load and fixed ice properties was examined and showed some constant relationships. It proved possible to completely describe the ice thickness-tensile stress pattern in terms of a single number. When the load was changed by increasing the payload but not altering the geometry of the load pattern, other relationships were found that described the tensile stress in the ice sheet for any combination of payload and ice thickness. This provides a simple method of finding tensile stress in the ice that can be used in the field. Further studies are planned

Operation of the CRREL prototype air transportable

Flanders, S.N., L.S. Army Cold Regions Research and Engineering Laboratory, Feb. 1980, SR 80-10, 73p. ADA-084 275. Portable shelters, Cold weather performance, Trans-

portation, Airplanes, Logistics.

portation, Airplanes, Logistics. This report describes the operation of the CRREL prototype air-transportable shelter which was designed specifically for use in cold regions. The operating instructions cover moving the shelter on its own wheels or skis, loading it onto a truck or military transport aircraft slinging it from a helicopter or preparing it for shipment as an ISO container. The report details how to site the shelter and expand it to about double its transport size. The report also covers operation of the utility systems, including the on-board alternator set, the primary and auxiliary heating systems, the water system, and various safety systems. systems

Snow fortifications as protection against shaped

charge antitank projectiles.
Farrell, D.R., U.S. Army Cold Regions Research and Engineering Laboratory, Mar. 1980, SR 80-11, 19p. ADA-084 276

Snow strength, Fortifications, Cold weather construction, Cold weather operation, Snow (construction material), Explosion effects, Impact tests, Detonation waves, Embankments.

tion waves, Embankments.

This report chronicles an investigation of the effectiveness of snow fortifications. The test was planned to observe and measure how packed snow absorbs the energy of high explosive antitiank (HEAT) ammunition. In the test plan both the possibility of non-detonation due to insufficient resistance in snow and the rate of deterioration of a snow embankment with repeated impacts were considered. The 90-mm Mo7 recoiless reflexives used because it has a relatively leave about some disease. pearen impacts were considered. In evi-mit Mol recoilles, rife was used because it has a relatively low velocity, and its charge was more likely to not detonate than that of a high velocity weapon. The findings indicate that snow can be used to good advantage for building expedient fortifications, particulately in retinations. larly in situations where large volumes of snow have to be cleared from roads and airfields

in rando in my net a me of winds.

Drilling and coring of frozen ground in northern

Alaska, Spring 1979. Lawson, D.E., et al. U.S. Army Cold Regions Research and Engineering Laboratory, Mar. 1980, SR 80-12, 14p. ADA-084 277, 6 refs Brockett, B

Drilling, Permafrost structure, Stratigraphy, Ground ice, Permafrost samplers, Core samplers, Equipment. ice, Permatrost sampiers, Core sampiers, Equipment. Frozen samples of perennally trozen ground were obtained from 33 holes drilled at six locations in the National Petroleum Reserve. Alaska, in the spring of 1979. Total depth of drilling was 510 m (1670 ft), of which 178 m (584 ft) was cored. The objectives of the program were to define the location and extent of segregated and massive ce at each location and odetermine the origins and ages of the ground tee through studies of the hole stratigraphy and future laboratory analyses of core samples.

14.1114

Extending the useful life of DYE-2 to 1986. Part 2:

1979 findings and final recommendations.

Tobiasson, W., et al. U.S. Army Cold Regions Re-80-13, 37p., ADA-084 278, 8 refs. Tilton, P

Radar, Stations, Snow accumulation, Ice formation, Snow strength, Loads (forces), Steel structures, Stresses, Cost analysis.

Stresses, Cost analysis.

A major construction effort is needed at Dew Line Ice Cap Station DY E-2 to extend its useful life to 1986. That work should be done as soon as possible because the truss enclosure is deteriorating rapidly. Although a 210-ft sideways move as was accomplished at DYE-3 in 1977 is technically feasible, the alternative of backfilling the truss enclosure with ice is expected to cost about \$2.7 million less. Unless there is a strong possibility that DY E-2 will be needed for many years beyond 1986, the ice backfill alternative is recommended.

34-3335

54-5353 CRREL roof moisture survey, Pease AFB buildings 35, 63, 93, 112, 113, 120 and 220. Korhonen, C., et al, U.S. Army Cold Regions Research and Engineering Laboratory, Mar. 1980, SR 80-14 31p., ADA-084 279, 3 refs.

Roofs, Moisture transfer, Detection, Infrared spec-

ments.

We surveyed the roofs of seven buildings at Pease AFB with a hand-held infrared scanner to detect wet insulation. We used white spray paint to outline the wet areas and took core samples of the built-up membrane and insulation to verify our findings. Flashing defects around penetrations and bordering walls appear to be the major cause of the wet insulation found on these roofs. Since most problem areas are localized, we directed our repair recommendations toward salvaging as much of each roof as is economically possible.

34-3336

Antarctic navigation.
Woodfield, T., Journal of navigation, May 1979, 32(2), p.234-242, Includes discussion.
Ice navigation, Sea ice, Weather observations.

Ice navigation, Sea ice, Weather observations. The author shares some of the wisdom he has gained from nineteen years as master of survey ships supporting the BAS in its antarctic research programs. He describes the treacherous weather conditions of the Southern Ocean, the order in which sea ice forms are encountered during a southbound voyage, and suggests good seamanship practices for safely maneuvering a vessel in pack ice. He tells how to read weather indicators, recommends navigation methods, and cautions against the pitfalls inherent in the use of either magnetic or gyro compasses. With less than one percent of antarctic waters properly suveyed, he stresses that progress when off charted routes must be slow, careful, and vigilant.

34-3337

34-3337

Transportation under economic and geographic conditions of the Yakut ASSR. [Transport v ekonomikogeograficheskikh usloviiakh łAkutskol ASSR].
Belinskii. B.V., ed. Yakurik, Izdanie IAkutskogo Filiala SO AN SSSR, 1976, 104p., In Russian. For selected papers see 34-3338 through 34-3343.
DLC HE255.Z7Y347

Transportation, Roads, Snow roads, Railroads, Rivers, Navigation, Airplanes, Economic analysis, USSR—Yakutia.

34-3338

Influence of procurement forms on magnitude of in-

dustrial supplies. [Vliianie form snabzheniia na veli-chinu proizvodstvennykh zapasov], Belinskil, B.V., et al. Transport v ekonomiko-geografi-cheskikh usloviiakh IAkutskoi ASSR (Transportation under economic and geographic conditions of the Yakut ASSR) edited by B.V. Belińskii, Yakutsk, Izda-nie IAkutskogo Filiala SO AN SSSR, 1976, p.4-27, In

Russian. Lesnol, V.G. DLC HE255.Z7Y347

Economic development, Materials, Equipment, Storage, Transportation, Snow roads, USSR—Yakutia.

34 3339

Freight traffic irregularities on rivers of the Yakut ASSR. (Neraynomernost' gruzopotokoy na rechnom transporte IAkutskot ASSR). Zay ialov, S.I.A., Transport v ekonomiko-geograficheskikh uslovnakh IAkutskot ASSR (Transportation un-

ASSR) edited by B.V. Belinskii, Yakutsk, Izdanie IAkutskogo Filiala SO AN SSSR, 1976, p.28-40. In

DLC HE255 Z7Y347

Rivers, Cargo, Transportation, Seasonal variations, USSR-Yakutia.

34.3340

Extending the navigation period on Yakutian rivers. (K. coprocu o prodlenii navigatsii na rekakli IAkutii). Zernov, S.IA., Transport v ekonomiko geograficheskikh uslovijakh IAkutskot ASSR (Transportation unde extraomic and geographic conditions of the Takut ASSR) edited by B.V. Belinskil, Yakutsk, Izdanie IAkutskogo Fihala SO AN SSSR, 1976, p.41-51, In Russian.

DLC HE255, Z7Y347

Transportation, Rivers, Permafrost beneath rivers, Ice conditions, Navigation, USSR—Yakutia.

34-3341

Influence of railroads on motor vehicle transport in Yakutia, įVliianie razvitija zheleznodorozhnogo trans-porta na rabotu avtomobil'nogo transporta v IAkutij, Shtyrev, I.N., Transport v ekonomiko-geograficheskikh uslovijakh IAkutskot ASSR (Transportation under economic and geographic conditions of the Yakut ASSR) edited by B.V. Belinskii, Yakutsk, Izdanic IAkutskogo Filiala SO AN SSSR, 1976, p 52-58, In Kussian.

DLC HE255.Z7Y347

Railroads, Roads, Permafrost beneath structures, Materials, Transportation, Economic analysis.

34-3342

Norms for spare parts expenditure in motor vehicle transport of the Yakut ASSR. (O normakh raskhoda zapasnykh chastel na avtomobil'nom (ransporte

IAkutskot ASSR<sub>1</sub>, Karasev, G.A., et al, Transport v ekonomiko-geograficheskikh uslovijakh lAkutskol ASSR (Transportation under economic and geographic conditions of the Yakut ASSR) edited by B.V. Belinskii, Yakutsk, Izda-nie I.Akutskogo Filiala SO AN SSSR, 1976, p.59-65, In Russian.

Grigor'ev, R.S., Shtyrev, I.N. DLC HE255.Z7 Y347

Motor vehicles, Winter maintenance, Cold weather performance, Transportation.

Economic effectiveness of turboprop planes used by Yakutian passenger airlines. (Ob ekonomicheskot effektivnosti ekspluatatsii turbovintovol tekhniki na passazhirskikh perevozkakh v IAkutskom aviapred-

priiatiij, Zharikov, O.N., et al. Transport v ekonomiko-geograficheskikh usloviiakh lAkutskoi ASSR (Transportation under economic and geographic conditions of the Yakut ASSR) edited by B.V. Belinskii, Yakutsk. Izdanie lAkutskogo Filiala SO AN SSSR, 1976, p.66-76, In Russian. Platonova, L.V., Ponomareva, S.D. DLC HE255.Z7Y347

Airplanes, Transportation, Economic analysis.

Snow cover and precipitation in the mountains of Central Asia. [Snezhnyl pokrov i osadki v gorakh

Srednel Azii, Getker, M.I., ed, Sredneaziatskii regional'nyi nauchno-issledovateľsků gidrometeorologichesků institut. Trudy, 1978, Vol.44, 98p., In Russian. For selected papers see 34-3345 through 34-3350. Refs. passim. Konovalov, V.G., ed.

River basins, Snow cover distribution, Snow depth, Glacier ablation, Snow accumulation, Mathematical models, Snow physics, Mountain glaciers, Snow line, Snew water equivalent. Water reserves.

34-3345

Information content of observations on precipitation and snow cover in the Uryadar'ya River Basin for long range forecasts of runoff. (Ob informativnosti nabliudenit nad osadkami i snezhnym pokrovom v basseine i Uriadar'i dlia dolgosrochnykh prognozov stokaj, Akhundzhanov, Sh.M., et al, *Sredneaziatskii regional'* nyi nauchno-issledovatel'skii gidrometeorologicheskii institut. Trudy. 1978, Vol.44, p.3-21, ln Russian 8 refs

Getker, M.I.

River basins, Snow cover distribution, Precipitation (meteorology). Snow water equivalent, Runoff, Long range forecasting.

34-3346

Seasonal snow line dynamics as indication of snow reserve gradient. Dinamika sezonnot snegovot linii

kak pokazateľ gradienta snegozapasovy. Bassin, N.S., et al, Sredneaziatsků regionaľnyi nauch-novisledovateľsků – udrometeorolo, ichesků vins itot Trudy, 1978, Vol 44, p.22-25, in Russian 4 refs Shabunin, G.D.

Mountain glaciers, Snow line, Snow water equivalent, Water reserves, Snow surveys.

Results of a numerical experiment of calculating physical characteristics of dry snow. Rezul taty chislennogo eksperimenta po raschetu fizicheskikh kharakteristik sukhogo snegaj.

Trofimova, E.B., Sredneazatsků regional'nyi nauch-no-issledovatel'sků gidremeteorologichesků institut. Trudy, 1978. Vol 44, p.26-33. In Russian. 4 refs. Snow physics, Snow cover structure, Metamorphism (snow), Mathematical models.

34.3348

More exact definition of mathematical model parameters of snow cover formation in mountains. [Ob utochnenii parametrov modeli formirovaniia snezhnogo pokrova v gorakhj.

naachno-issledovateľ skůi gidrometeorologichesků institut. Trudy, 1978, Vol.44, p.34-40, ln Russian. 4 refs.

Trofimova, E.B.

River basins, Snow cover distribution, Snow accumulation, Meteorological factors, Mathematical models.

Empirical formulas for calculating melting on glaciers. [Empiriches'\ie formuly dlia rascheta taianiia na lednikakhj, Konovalov, V.G., Sredneaziatskii regional'nyi nauch-

no-issledovateľskii gidrometeorologicheskii institut. Trudy, 1978, Vo. 44, p.41-53, In Russian. 4 refs. Glacier ablation, Glacier ice, Ice surface, Snow cover, Snow melting, Ice melting, Solar radiation, Heat transfer, Analysis (mathematics).

Influence of slope orientation and dissected topography on the statistical structure of snow depth. (Vliianie orientatsii sklonov i raschlenenija rel'efa na statisticheskuiu strukturu glubiny snega<sub>1</sub>.

Chirkova, A.A., Sredneaziatski regional nyi nauchno-issledovateľ skii gidrometeorologicheski institut-rudy, 1978. Vol.44, p.64-77, in Russian. 4 refs. River basins, Snow cover distribution, Snow depth, Slope orientation, Topographic effects, Statistical analysis.

Studying the mechanism of ice floe entrainment into submerged openings. [Izuchenie mekhanizma vovle-chenita l'din v zaglublennye otverstiia], Tsilikin, V.F., Leningrad, Vsesoiuznyi nauchno-issledovatel'skii institut gidrotekhniki. Izvestiia, 1978, Vol.126, p.98-102, In Russian. 7 refs. Ice breakup, Ice floes, Ice jams, Models.

Ice on the move.

Doake, C.S.M., Alpine journal, 1977, 82(326), p.65-

Glaciers, Ice sheets, Antarctica, Greenland

Proceedings of the Process

Gisciers, Tee sneets, Antarctica, Greeniano.

In this general article the author touches briefly on the many forms of ice; the uses to which knowledge of ice and snow is put, the multi-disciplinary nature of ice; the major distribution and contributing areas of Greenland and Antarctica; the possibilities of glaciers as sources of fresh water, and some of the methods of studying glaciers.

Modern trends in design, construction and operation of land reclamation systems under Siberian conditions. Abstracts of papers presented at a seminar. (Progressivnye napravlenia proektirovania, stroitel'stva i ekspluatatsii inchorativnykh sistem v usloviiakh Sibiri Tezisy dokładov respublikanskogo seminaraj.

Shirskii nauchno-issledovateľskii institut gidrotekhniki i melioratsu, Krasnoyarsk, 1978, 292p., In Russian For selected abstracts see 34-3354 through 34-3362

Morozov, G.A., ed DLC 8605-2.R9858

Land reclamation, Snow cover effect, Hydraulic structures, Permafrost hydrology, Water supply, Permafrost beneath structures, Dams, Taiga, Soil forma-tion, Channels (waterways), Cryogenic soils, Soil chemistry, Peat, Physical properties.

34-3354

Deformation of hydraulic structures of land reclamation systems in Central Yakutia. Deformatsii gi-drotekhnicheskikh sooruzhenii na mehorativnykh sis-

temakh v Tsentral not I Akutuj. Seliverstov, A.P. Progressisnyc napravlenia proektirovania, stroitel'stva i ekspluatatsii meliorativnykh sistem v usloviiakh Sibiri. Tezisy dokladov respublikanskogo seminara (Modern trends in design, construction and operation of land reclamation systems under Siberian conditions. Abstracts of papers presented at a seminar) edited by G.A. Morozov, Krasnoyarsk, 1978, p.7-10, In Russian.

DLC S605.2.R9S58

Hydraulic structures, Permafrost beneath structures, Land reclamation, Drainage, Dams, Frost shattering. Frost heave, Settlement (structural).

Structure of land reclamation complexes of the Bay-kal Amur railroad area and forecasts of their functioning. ¡Struktura meliorativnykh kompleksov zony BAM i prognoz ikh funktsionirovaniiaj. Naprasnikov, A.T., Progressivnye napravleniia proek-

tirovaniia, stroitel'stva i ekspluatatsii meliorativnykh sistem v usloviiakh Sibiri. Tezisy dokladov respublikanskogo seminara (Modern trends in design, construction and operation of land reclamation systems under Siberian conditions. Abstracts of papers presented at a seminar) edited by G.A. Morozov, Krasnoyarsk, 1978, p.39-40. DLC \$605.2.R9\$58

Taiga, Permafrost distribution, Discontinuous perma-

frost, Cryogenic soils, Land reclamation, Baykal Amur railroad.

34-3356

Specifics of soil formation and soils in West Siberia near the Yenisey River. [Osobennosti pochvoo-brazovaniia i pochv Prieniselskol chasti Zapadnol

Korsunov, V.M., et al. Progressivnye napravlenija proektirovaniia, stroitel'stva i ekspluatatsii meliorativ-nykh sistem v usloviiakh Sibiri. Tezisy dokladov re-spublikanskogo seminara (Modern trends in design. spublikanskogo seminara (Modern trends in design, construction and operation of land reclamation systems under Siberian conditions. Abstracts of papers presented at a seminar) edited by G.A. Morozov, Krasnoyarsk, 1978, p.73-75, In Russian. Boboleva, E.E., Karpenko, V.D., Korsunova, T.M. DLC S605.2.R9S58

Taiga. Permafrost distribution, Cryogenic soils, Soil formation, Soil chemistry.

34-3357

Determining stability of tailings dump embankments. Opredelenie ustoIchivosti damb khyostokhranilishch),

Zaslavskil, S.V.. Progressivnye napravleniia proek-tirovaniia, stroitel stva i ekspluatatsii meliorativnykh sistem v usloviiakh Sibiri. Tezisy dokladov respubsistem v usloviiakh Sibiri. Tezisy dokladov respub-likanskogo seminara (Modern trends in design, con-struction and operation of land reclamation systems under Siberian conditions. Abstracts of papers presented at a seminar) edited by G.A. Morozov, Krasnoyarsk, 1978, p.76-77, In Russian. DLC 5605.2.R9558

Mining, Tailings, Embankments, Permafrost beneath structures, Ground ice, Deformation.

34-3358

Water conduit earth structures of land reclamation systems in Central Yakutia. (Zemlianye vodo-provodiashchie sooruzhenija meliorativnykh sistem

provonasneme sonuzienia menoratvityki sistem Tsentral not IAkuttij. Krasnov, IU.N., et al. Progressivnye napravlenija pro-ektirovanija, stroitel stva i ekspluatatsii meliorati nykh sistem v uslovijakh Sibiri. Tezisy dokladov re-spublikanskogo seminara (Modern trends in design, spitolikanskog seminara (Modern terios) in design, construction and operation of land reclamation systems under Siberian conditions. Abstracts of papers presented at a seminar) edited by G.A. Morozov, Krasnoyarsk, 1978, p.82-84, In Russian.

Demin, A 1 DLC 8605-2 R9858

Land reclamation, Peat, Drainage, Irrigation, Channels (waterways), Permafrost beneath structures, Ground ice.

34-3359

ources of water supply and thermal energy resources of the Beloozerskii swamp. (Istochniki vodnogo pita-niia i teploenergeticheskie resursy Beloozerskogo

bolotnogo massivaj. Starkov, V.M., Progressivnye napravlenija proektirovaniia, stroitel'stva i ekspluatatsii meliorativnykh sistem v usloviiakh Sibiri. Tezisy dokladov respublikanskogo seminara (Modern trends in design, construction and operation of land reclamation systems under Siberian conditions. Abstracts of papers presented at a seminar) edited by G.A. Morozov, Krasnoyarsk, 1978, p.90-92, In Russian.
DLC S605.2.R9S58

Swamps, Permafrost distribution, Permafrost hydrology, Water supply, Subpermafrost ground water, Suprapermafrost ground water, Frozen rock tempera-

34-3360

lemperature regime of southern chernozems in the Irkutsk region, subject to long seasonal freezing, and their thermal melioration. [Temperaturnyl rezhim dli-tel no sezonnomerziotnykh iuzhnykh chernozemov Irkutskoj ol lasti i nekotoryc voprosy ikh teplovol melioratsin.

Karnaukhov, N.I., et al. Progressivnye napravlenija proektirovaniia, stroitel'stva i ekspluatatsii meliorativnykh sistem v uslovijakh Sibiri. Tezisy dokladov respublikanskogo seminara (Modern trends in design, construction and operation of land reclamation systems under Siberian conoitions. Abstracts of papers presented at a seminar) edited by G.A. Morozov, Krasnoyarsk, 1978, p.94-95, In Russian. Morozova, K.V. DLC S605.2.R9S58

Cryogenic soils, Thermal regime, Frozen ground temperature, Frost protection, Snow cover effect, Snow retention, USSR—Irkutsk.

34-3361

Thermophysical properties of frozen low moor peats. (Teplofizicheskie svolstva merzlykh nizinnykh torfov). Bushina, O.N., et al, Progressivnye napravlenija proektirovanija, stroiteľstva i ekspluatatsii meliorativnykh sistem v uslovijakh Sibiri. Tezisy dokladov respublikanskogo seminara (Modern trends in design, construction and operation of land reclamation systems under Siberian conditions. Abstracts of papers presented at a seminary edited by G.A. Morozov, Krasnoyarsk, 1978, p.132-134, In Russian. Glushkova, N.I. DLC S605.2.R9558

Swamps, Peat, Physical properties, Thermal proper-

34-3362

Influence of freezing on nutrient content of hydromorphic soils. [Vliianie kriogeneza na soderzhanie elementov pitaniia v gidromorfnykh pochvakh<sub>1</sub>, Rudol, N.G., et al, Progressivnye napravleniia proektirovaniia, stroitel'stva i ekspluatatsii meliorativnykh sistem v usloviiakh Sibiri. Tezisy dokladov respublikanskogo seminara (Modern trends in design, con-struction and operation of land reclamation systems under Siberian conditions. Abstracts of papers presented at a seminar) edited by G.A. Morozov, Krasnoyarsk, 1978, p.148-150, In Russian.

Geras'kina, A.P. DLC S605.2.R9S58

Cryogenic soils, Nutrient cycle, Soil chemistry, Frost

34-3363

Large scale mapping of southern taiga vegetation in the Central Ural Mountains, (Opyt krupnomasshtab-nogo kartirovanna rastitel nosti – juzhnol taige Srednego Uralaj. Gorchakovskii, P.L., et al, Vsesoiuznoe botanicheskoe

obshchestvo. Sverdlovskoe otdelenie Zapiski, 1977, Vol.7, Geobotanika, ekologija i morfologija rastenil na Urale (Geobotany ecology and morphology of teni na Uraie (Geobotany ecology and morphology of Ural Mountain plants) edited by P.L. Gorchakovskii, p.3-15, In Russian. 9 refs. Nikonova, N.N., Famelis, T.V., Sharafutdinov, M.I. DLC QKI V714. Mapping, Vegetation, Taiga, Charts, Landscape types, USSR—Ural Mountains.

34-3364

Ecologic series technique for revealing regularities governing altitudinal distribution of vegetation. [Primenenie metoda ekologicheskikh riadov dlia vyjav-lenia zakonomernostel vysotnogo raspredelenia ras-

titel'nostij. Famelis, T.V., Vsesoiuznoe botanicheskoe obshchestvo. Sverdlovskoe otdelenie. Zapiski, 1977. Vol 7, Geobotanika, ekologija i morfologija rastenil na Urale (Geobotany, ecology and morphology of Ural Mountain plants) edited by P.L. Gorchakovskii, p.22-27, In Russian. 20 refs. DLC QK1.V714

Alpine landscapes, Taiga, Alpine tundra, Vegetation.

34.1365

Nitrogen transformations in a simulated overland

flow wastewater treatment system.
Chen, R.L., et al, U.S. Army Cold Regions Research and Engineering Laboratory, Apr. 1980, SR 80-16, 33p. ADA-084 280, 36 refs.

Patrick, W.H., Jr. Waste treatment, Water treatment, Nutrient cycle, Soil chemistry.

Soil chemistry.

Treating wastewater in properly designed and operated overland flow systems results in significant amounts of N being removed through nitrification-dentification-reactions. Application of wastewater containing NH4-N in a simulated overland flow model led to the disappearance of ammonium and the formation of nitrate in oxidized surface soil. The N balance in the simulated overland flow system was estimated by using labeled 15. N. The amount of N removed in the system depends upon denitrification rates. The results of this study indicated that N adsorption on the soil complex and uptake of applied ammonium by vegetation accounted for the N removed in the overland flow systems. The adsorbed ammonium on the aerated surface soil mass was nitrified and converted to oxidized forms of N. The nitrate thus formed diffused downward to the reduced zone during subsequent wastewater applications. Some of this nitrate then denitrified and converted to gaseous form of N or was assimilated and reduced by plant life. Results of the overland flow studies indicated that approximately 55-68" of wastewater NH4-N added to the simulated overland flow system was unaccounted for in controlled laboratory environments. This NH4-N was presumably returned to the atmosphere

Time-dependent feedback system involving sea-ice ex-

tent, ocean temperature, and CO2. Saltzman, B., et al, Tellus, Apr. 1980, 32(2), p.93-118. In English with Russian summary. 31 refs Moritz, R.E.

Sea ice, Ice cover effect, Heat transfer, Mathematical models, Climate, Carbon dioxide, Sea water, Water temperature.

Effects of loading thermal and electrical resistance of cryogenic insulation materials.

Mil'man, S.B., et al, Journal of engineering physics, Feb. 1980, 337(2), p.982-985, Translated from Inz-henerno-fizicheskii zhurnal. 9 refs.

Kaganer, M.G. Construction materials, Thermal insulation, Heat transfer.

Maximum permissible values of nonuniform settlement of agricultural buildings.

Zhukov, N.V., et al, Soil mechanics and foundation engineering, Sep.-Oct. 1979, 16(5), p.243-248, 2 refs. Translated from Osnovaniia, fundamenty i mekhanika

gruntov. Borshchev, V.V., Balov, I.L.

Settlement (structural), Frost heave, Design, Buildings, Foundations.

14.1169

Construction of a cutoff wall by the diaphgragm wall method in the foundation pit of a bank pumping sta

Domarev, A.N., et al, Soil mechanics and foundation engineering, Sep.-Oct. 1979, 16(5), p.255-259, Trans-lated from Osnovaniia, fundamenty i mekhanika grun-

tov Nepomniashchit, V.A., Sorokovkin, M.S., Fedorov,

Pumps. Foundations. Earthwork, Cold weather construction, Stations.

34.3370

Pressure meter for testing soft soils. Lushmkov, VV, et al, Soil mechanics and foundation Lanslated from Osnovanna, fundamenty i mekhanika

Bystrykh, V F

Clay soils, Bearing tests, Drilling, Test equipment, Borehole instruments, Paludification.

34-3371

Preconstruction consolidation of bases with vertical drains.

Bel'ski, A I, et al, Soil mechanics and foundation en-gineering. Sep.-Oct. 1979, 16(5), p.266-272, 9 refs. Translated from Osnovanija, fundamenty i mekhanika gruntos

Svetinskii, EA , Stroganov, A.S.

Clay soils, Peat, Mud, Soil compaction, Drainage. Foundations.

34-3377

Determination of the parameters of the method of thermal stabilization of soils and its economic effec-

Rudano, A.P., Sil mechanics and foundation engineering. Sep.-Oct. 1979, 16(5), p.272-278, 9 tefs. Translated from Osnovaniia, fundamenty i mekhanika

gruntov Clay soils, Loess, Soil stabilization, Heating, Foundations.

34-3373

Use of high-pressure water jets in construction.

Petrosian, L.R., Soil mechanics and foundation engineering, Sep.-Oct. 1979, 16(5), p.279-283, 5 refs. Translated from Osnovaniia, fundamenty i mekhanika

gruntov. Excavation, Hydraulic jets.

34-3374

Experience with the drying of loess soils using radial

Experience with the drying of loess soits using radial horizontal holes.

Anpilov, V.E., et al, Hydrotechnical construction, July 1979, No 7, p.674-677, 2 refs. Translated from Gidrotekhnicheskoe stroitel'stvo.

Ponomarcinko, IU.V.

Clay soils, Loess, Paludification, Drainage.

34-3375

All-Union scientific-technical conference on hydrotechnical construction in regions of permafrost and rigorous climate (CHC-78).

Rudoiarov, I.I., et al. Hydrotechnical construction. July 1979, No 7, p.724-726, Translated from Gidrotekhnicheskoe stroitel'stvo.
Tetel'min, V V.
Meetings, Hydraulic structures, Permafrost beneath

structures, Earth dams, Thermal regime, Design. 34-3376

Passage of ice during construction of the Sayano-Shushenskoe hydroelectric station.

Koren'kov, V.A., Hydrotechnical construction, Aug. 1979, No.8, p.777-781, 6 refs. Translated from Gidrotekhnicheskoe stroitel'stvo.

Hydraulic structures, Electric power, Dams, Ice passing.

34-3377

Investigation of construction-joint grouting tech-

niques under field conditions.

Zhivoderov, V.N., et al, Hydrotechnical construction.

Sep. 1979, No.9, p.872-879, 5 refs. Translated from Gidrotekhnicheskoe stroitel stvo.

Sukhanov, G.K Concrete structures, Dams, Joints (junctions), Grouting.

34-3378

Control of seepage through concrete by injection of

Control of setypas polymer solutions. In additional construction, Sep. 1979, No.9, p.880-882, Translated from Gidrotekhnistas stroitel'stvo. 3 refs.

Concretes, Fracturing, Porosity, Concrete structures, Joints (junctions), Seepage, Waterproofing, Grouting, Cements.

34-3379

Problems of mountain glaciology, Noprosy gotnot

iliatsiologii). Nauchnaia konferentsiia Itogi i perspektivy gliatsiogi-Nauchnaia konferentsina 1 fogi 1 perspektivy giatstogi-droklimatologicheskogo 1/uchenna Altae-Saianskot gornot oblasti, Tomsk, Feb. 19-22, 1975, Tomsk, Uni-versitet, 1977, 212p, In Russian. For selected papers see 34-3380 through 34-3389. Refs. passim

Reviakin, V.S., ed. DLC GB2556.A57N37 (1975)

DLC GB2556.A578.37 (1975) Glaciology, Climatology, Theories, Research projects, Mountain glaciers, Glacier mass balance, Snow accumulation, Snow line, Glacier ablation, Snow cover stability, Avalanches.

Glacio-climatology as a connecting scientific disci-pline, its problems and goals. (Ghatsioklimatologiia kak kontaktnaia nauchnaia distsiplina, ee tseli i zadachij.

Tronov, M.V., Voprosy gornoi gliatsiologii (Problems of mountain glaciology) edited by V.S. Reviakin, Tomsk, Universitet, 1977, p.3-11, In Russian. 14 refs. DLC GB2556.A57N37 (1975)

Glaciology, Climatology, Theories, Research projects, Mountain glaciers, Ice formation, Firn, Glacier alimentation, Snow line, Glacier oscillation.

34-3381

Intracontinental version of earth's cryosphere. (Vnutrikontinental'nyt variant gliatsiosfery zemlij, Reviakin, V.S., Voprosy gornol gliatsiologii (Problems of mountain glaciology) edited by V.S. Reviakin, Tomsk, Universitet, 1977, p.12-35, In Russian. 57

DLC GB2556.A57N3T (1975)

Glacier ice, Mountain glaciers, Glacier formation, Glacier alimentation, Avalanches, Naleds, USSR— Altai Mountains, USSR—Sayan Mountains.

34-3382

Radiation regime of the Altai-Sayan mountain system. ¡Osnovnye cherty radiatsionnogo rezhima Altae-

Saianskot oblastij, Goleshchikhin, V.P., Voprosy gornot gliatsiologi (Problems of mountain glaciology) edited by V.S. Reviakin, Tomsk, Universitet, 1977, p.72-79, In Rus

sian. 9 refs. DLC GB2556.A57N37 (1975)

Glacier ice, Alpine landscapes, Solar radiation, Glacier ablation, Radiation balance.

34-3383

Subsistence regime of quasi-glacier snow patches. [Rezhim sushchestvovanija mnogoletnikh snezhnikov

- pochti lednikovj, Glazyrin, G.E., Voprosy gornol gliatsiologii (Problems of mountain glaciology) edited by V.S. Reviakin, Tomsk, Universitet, 1977, p.80-91, In Russian. 20

refs. DLC GB2556.A57N37 (1975)

Snow accumulation, Metamorphism (snow), Firn stratification, Topographic factors, Meteorological factors, Analysis (mathematics).

34-3384

Snow patch stability in the Aktru River glaciation basin. (Snezhniki i ikh ustolchivost' v gornoledniko-

vom basselne r. Aktruj, Dudukalova, N.L. Voprosy gornoi gliatsiologii (Problems of mountain glaciology) edited by V.S. Reviakin, Tomsk, Universitet, 1977, p.103-106, In Russian. 4

DLC GB2556.A57N37 (1975)

Snow cover stability, Glacial rivers, Alimentation, River basins, Snow patches.

34-3385

Mass balance of Altai glaciers. (Veshchestvennyi ba-

lans lednikov Altaia<sub>1</sub>, Reviakin, V.S., et al. Voprosy gornol gliatsiologii (Problems of mountain glaciology) edited by V.S. Reviakin, Tomsk, Universitet, 1977, p.116-130, In Russian. 9 refs. Galakhov, V.N.

DLC GB2556.A57N37 (1975)

Mountain glaciers, Glacier mass balance, Snow accumulation, Snow cover distribution, Glacier abla14.3386

Evaluating avalanche recurrence in Zailiyskiy Alatau from dendrochronological data. Nekotorye rezul'taty otsenki povtoriaemosti lavin v Zaililskom Alatau po

otsenki povtoriaemosti lavin v Zaililskom Alatau po materialam dendrokhronologicheskogo analizaj, Severskit, I.V., et al. Voprosy gernol gliatsiologii (Problems of mountain glaciology) edited by V.S. Reviakin, Tomsk, Universitet, 1977, p.131-140, In Russian, 13 refs. Kontsova, L.N., Toporkov, A.D. DI.C GB2556 A57N37 (1975)

Avalanches.

Statistical analysis of the influence of morphology and morphometry of avalanche foci on ejection distances. (Trucheme vhiania moriologii i moriometii lavinnykh ochagov na dal'nost' vybrosa lavin statisticheskim metodomj. Blagoveshchenskii, V.P., Voprosy gornot gliatsiologii

(Problems of mountain glaciology) edited by VS Reviakin, Tomsk, Universitet, 1977, p.141-147, In

Russian 5 rets DLC GB2556.A57N37 (1975)

Avalanche formation, Avalanche mechanics, Avalanche triggering.

34-3388

Forecasting fresh snow avalanches using discriminant analysis. (Eksperiment prognoza lavin svezhevypav-shego snega s pomosheh iu diskriminantnogo analiza). Snego snego s pomosnen iu diskriminantiogo ananzaj. Drozdovskaja, N.F., et al, Voprosy gornol gliatsiologi (Problems of mountain glaciology) edited by V.S. Reviakin, Tomsk. Universitet, 1977, p.148-156, In Russian 13 refs.

Imas, L.I DLC GB2556.A57N37 (1975)

Snow physics, Avalanche forecasting, Avalanche formation, Meteorological factors, Avalanche triggering, Analysis (mathematics).

34-3389

Evaluating avalanche danger in the Katunskiy Range, Altai. rOpyt otsenki stepeni lavinnol opasnosti na pri-

Altai. (Opyt otsenki stepeni lavinnol opasnosti na primere Katunskogo khrebta (Altal), Reviakin, V.S., et al, Voprosy gornol gliatsiologii (Problems of mountain glaciology) edited by V.S. Reviakin, Tomsk, Universitet, 1977, p.157-162, ln Russian, 10 refs.
Petkevich, M.V.
DLC GB2556.A57N37 (1975)

Economic development, Avalanche formation, Mapping, Avalanche forecasting, USSR-Altai Moun-

Polar environmental monitoring: final report.
System Planning Corporation, Arlington, Va., Feb.
1979, 94p. SPC 392.
Nagler, R.G., Schultheis, A.C.
Spacecraft, Monitors, Sea ice, Remote sensing,
Weather, Radiometry, Climate, Polar atmospheres.
Environmental monitoring American

Environmental protection, Antarctica.

Environmental protection, Antarctica.

This report investigates the technical and economic feasibility of a satellite-based polar environmental monitoring system. User benefits to industry, government and the scientific community are discussed and interested and active user groups identified. The report is then organized into the following sections user needs for polar environmental information; pections user needs for polar environmental information; but measurement status, sensor status; trajectory tradeoffs; data processing and delivery alternatives, platform (payload) alternatives; and sample implementation alternatives for polar research.

Study of shorelines in the building and operation of Siberian reservoirs.

Vendrov, S.L., et al, U.S. Army Cold Regions Research and Engineering Laboratory, Feb. 1980, TL 724, 10p., ADB-046 835L, For Russian original see 32-439. 22 refs. Shirokov, V.M.

Shoreline modification, Reservoirs, Shore erosion, Permafrost beneath lakes, Ground ice, Forecasting, Water storage.

Water storage.

Since the early 1950's, increased construction of large reservoirs has led to expanded studies of shoreline re-formation. Shorelines of reservoirs have been studied in two stages: 1) during the construction period and filling of the reservoir and 2) during its long-term use. Forecasting of shoreline changes not only for reservoir design but also for long-term use of the shores has attained importance. Problems needing study currently include improvement of long-term forecasts and checking of their accuracy, large scale study of shoreline re-formation throughout the country, studies of the shorelines of small and medium-sized Siberian reservoirs, changes in water level, linked reservoirs, genetic classification of reservoir shorelines, and study of the development of shorelines of reservoirs along the Baykal-Amur railroad.

and the state of t

Permafrost in the territory of the Boguchansk reser-

Seroy, A.G., et al, U.S. Army Cold Regions Research and Engineering Laboratory, Feb. 1980, TL 725, 9p., ADB-046 836L, For Russian original see 33-3415, 2 refs.

Leshchikov, F.N

Permafrost distribution, Active layer, Geocryology, Sporadic permafrost, Frozen fines, Swamps, Peat, Frost penetration, Snow cover effect, Charts, USSR -Angara River.

The distribution of permafrost in the vicinity of the Boguchansk The distribution of permaftost in the vicinity of the Boguchans. Reservoir is irregular. It covers 20:40% of the region generally on shaded north-facing slopes, in deep ravines and small valleys, and in populated areas. The top of the permaftost is mainly at 0.5 to 2.5 m depth, thickness is generally 5-10 m and can reach 20 m. The depth of seasonal freezing of soils varies greatly, depending mainly on the amount of snow cover and type of soil (range 0.6-3.5 m). Disruption of natural conditions (cutting of forests, fires, plowing, road-building) will cause rapid degradation of the permaftost. Construction of the reservoir will lead to drampatic change (permaftost degradation) in the shorehie zone. shoroline zone

Geoengineering and hydrogeologic studies of the zone of influence of the Angara reservoirs and means of effective incorporation of these results in the national

Odintsov, M.M., et al, U.S. Army Cold Regions Research and Engineering Laboratory, Feb. 1980, TL 726, 10p., ADB-046 837L, For Russian original see 33-3414. 11 refs.

Trzhtsinskil, IU.B., Shen'kman, B.M.

Reservoirs, Permafrost distribution, Electric power, Shore erosion, Slope processes, Landslides, Solifluc-tion, Earthquakes, USSR—Angara River.

tion, Earthquakes, USSR—Angara River.

A string of hydroelectric dams in Eastern Siberia have created a system of reservoirs some 800-900 km long. The reservoirs have created a host of hydrological and geological problems, including eroding banks, activated karsting, mudslides, landslides, increases in the height of the water table, and changes in the processes of ground water-surface water exchange. The Soviet Institute of the Earth's Crust has been studying these problems. They have published a number of reports, modeled various processes, and developed a program for future research

Thermal behavior of concrete slab on frozen ground bed.

Gavrish, IU.E., et al, U.S. Army Cold Regions Research and Engineering Laboratory, Feb. 1980, TL 729, 9p., ADB-046 838L, For Russian original see 33-1817 3 refs.

Khvorostovskaia, N.S., Serbin, V.G.

Winter concreting, Frozen ground, Concrete freezing, Concrete strength, Thermal regime, Concrete placing. This work involved experimental and theoretical studies of the thermal behavior of a concrete stab design and frozen ground bed from the instant of placement of the concrete until its freezing. The experiment was conducted on an exposed specimental site with sandy soil, containing approximately 11% moisture

34-3395

Components of biogeocenoses of the tundra-forest re-

gions of the northern Okhotsk Sea region. Ignatenko, I.V., ed, U.S. Army Cold Regions Research and Engineering Laboratory, Mar. 1980, TL 730, 51p., ADB-046 839L. 66 refs. For Russian original see 34-158. For individual articles see 34-3396 through 34-

Khokhriakov, A.P., ed.

Forest tundra, Ecology, Biogeography, Vegetation,

Climate, Animals, Soils.

A description is given of the basic components of biogeocenoses of the territory of the "Snow Valley" station, situated by the Okhotsk Sea land province: the geological structure, the topography, soil-forming rocks, the climate, the vegetation and soil beds, the flora of vascular plants, fungi and mosses, entomcfauna and fauna of land invertebrates, the morphological servetic characteristics and the hydrothermal resulation of the genetic characteristics, and the hydrothermal regulation of the more prevalent soils of the station. Diagrams of the vegetation and soil covers are given also. The str cture of the soil cover is separated into various grades in the soil diagram. Much at-tention has been devoted to human activity in the soil and vegetation covers.

34-3396

Physical-geographical conditions of the northern Okhotsk Sea region and the hydrothermal state of the soils ("Snow Valley Station").

Ignatenko, I.V., et al. U.S. Army Cold Regions Research and Engineering Laboratory, Mar. 1980, TL 730, p.5-23, For Russian original see 34-1159.

Mel'nikova, T.V., Pugachev, A.A.

Forest tundra, Soil temperature, Vegetation, Taiga, Soil water, Landscape types, Plant ecology.

34-3397

Vegetation of the "Snow Valley" station (Explanatory list with a diagram of vegetation). Shatkauskas, A.V., et al. U.S. Army Cold Regions Re-

search and Engineering Laboratory, Mar. 1980, Tl. 730, p.24-35, For Russian original see 34-1160.

Zvezdenko, V.B.

Forest tundra, Taiga, Vegetation, Plant ecology, Ecosystems, Mapping, Charts.

34-3398

Soil cover of the "Snow Valley" station (Explanatory

list with a diagram of soil cover). Bogdanov, 1.E., et al, U.S. Army Cold Regions Re search and Engineering Laboratory. Mar. 1980, TL 730, p.36-47, For Russian original see 34-1161. 23 ref

Ignatenko, I.V., Kvantaliani, L.G.

Cryogenic soils, Classifications, Landscape types, Soil patterns, Mapping.

Flora of vascular plants of the "Snow Valley" station. Khokhriakov. A.P., et al, U.S. Army Cold Regions Research and Engineering Laboratory, Mar. 1980, TL 730, p.48-51, For Russian original see 34-1162. Shatkauskas, A.V.

Forest tundra, Vegetation, Landscape types, Ecosystems, Swamps.

Dynamics of the Baykal shore processes on the Tyya-

Nizhneangarsk section.

Bodenko, V.M., et al, U.S. Army Cold Regions Research and Engineering Laboratory, Mar. 1980, TL 731, 6p., ADB-046 840L, For Russian original see 33-3931. 5 refs.

Leshchikov, F.N., Rogozin, A.A.

Shoreline modification, Geocryology, Slope processes, Frost weathering, Permafrost beneath structures, Hydraulic structures, Earthquakes, USSR— Baykal Lake.

A 20-km length of the northern shoreline of Lake Baikal was investigated in connection with construction of the Baykal-Amur railroad. Interaction of the water body with the shore and geological evolution of the shoreline were studied. Morphology of the shore and bottom is described. Natural reworking of the shoreline and the effects and consequences of human activities (construction) are discussed.

Studying the effect of water reservoirs on slope pro-

cesses on their shores. Kachugin, E.G., U.S. Army Cold Regions Research and Engineering Laboratory, Mar. 1980, TL 732, 3p., ADB-047 447L, For Russian original see 25-1305. Slope processes, Slope stability, Shore erosion,

Reservoirs.

This is a general description of reservoir shore erosion processes and data needs to assess slope stability, soil mechanics and landslide dynamics. The characteristics and types of landslides typical of the reservoir shores along the Volga are described. The following factors contribute to the loss of shore stability along these shores: abrasion at the waterline; gully and rill erosion along the face of the slope; ground water saturation of slope material and groundwater piping; chemical weathering and erosion of slope material; rapid pool level fluctuations causing alternating wetting and drying of slope and increase of hydrostatic pressure in slope after rapid drop in water level; and man-induced effects. Quantitative information on shore erosion and landslide processes is needed to predict reservoir shoreline recession.

34.3402

Recent geological processes and phenomena observed

on the southern shore of Ob' Bay.
Trepetsov, E.V., U.S. Army Cold Regions Research and Engineering Laboratory, Mar. 1980, TL 733, 4p., ADB-046 841L, For Russian original see 29-2169.

Slope processes, Permafrost structure, Permafrost

Slope processes, Permafrost structure, Permafrost weathering, Thermokarst, Environmental impact, Geomorphology, Clays, Sands, USSR—Ob' Bay. Parts of the shorelines of Ob' Bay and Tasov' Bay were studied in connection with planned and current construction projects in the Tumen' district. Windward shores composed of frozen loams, sands and sandy loams are retreating at a rate of about 0.9 m/yr due to abrasion, snow erosion and solifluction. Destruction of the turf cover by man has led to development of scours, ravines and gorges; in sand and sandy loam permafrost the rate of development is 48 m/yr. During summer, small streams fed by meltwater from thawing saturated permafrost exist in ravines. Also observed were thermokarst pits and lakes and frost mounds up to 5 m high.

34-3403

How to compute complex interconnected district

heating systems. Wehr, R., et al, U.S. Army Cold Regions Research and Engineering Laboratory, Mar. 1980, Tl. 734, 13p., ADA-084 211, Translated from Fernwärme international, 1979, 8(5):247-252. 6 refs.

Tautz. A.

Heating, Heat transmission, Computer programs, District heating.

The cost-intensive extension of urban district heating systems The cost-intensive extension of urban district heating systems demands a relatively accurate assessment of the distribution apparatus with respect to the heating market to be supplied. Here we consider the plans of currently available computer programs which can reproduce with practical approximation the operating conditions of complicated interconnected heating networks. Along with the validity of the program, the quality of its application is equally critical; this application requires a meticulous analysis of parameters such as line resistances, temperature conditions and load distribution.

Differences between explosions and earthquakes. Cheng, Z.C., et al, U.S. Army Cold Regions Research and Engineering Laboratory, Mar. 1980, TL 735, 18p., ADA-084 245, Translated from Acta Geophysica Sinica, July 1975, 18(3):208-216. 11 refs.

Zhu, C.C., Hu, Z.C. Earthquakes, Explosion effects, Seismic surveys, Statistical analysis, Analysis (mathematics).

This paper investigates the differences between seismograms of rins page investigates the enterties of week estimates and carthquakes of medium strength (2 - 5-4 5) and at medium distances (100-500 km) in order to offer methods of distinguishing explosions from the records.

Ground ice and ice-rich ground as structure founda-

tions.

tions.
Vialov, S.S., et al, U.S. Army Cold Regions Research and Engineering Laboratory. Apr. 1980, TL 737, 159p., ADB-047 446L, For Russian original see 32-1655. 58 refs.
Dokuchaev, V.V., Sheinkman, D.R.
Ground ice, Permafrost bases, Permafrost beneath structures, Ice strength, Ice creep, Foundations, Ice physics, Deformation, Rheology, Experimentation. This book examines the characteristics of foundation design on

This book examines the characteristics of foundation design on ground ice and ice-neh permafrost soils which are common in the Far North. The characteristics of these foundations are de-termined primarily by the properties of the enclosed or ground ice; therefore the latter is emphasized in this book. Based on experimental research, the authors establish patterns of deforexperimental research, the authors establish patterns of defor-mation of ice-rich ground and ground ice under load, cite recommendations for the determination of characteristics necessary for design, present methods of computing foundation settling caused by the viscous flow of ice and ice-rich ground, and indicate methods of their application to engineering using examples Supplementary tables and graphs contained in the book contribute to its value.

34-3406

Microwave radar and radiometric remote sensing measurements of lake ice.

Swift, C.T., et al. Geophysical research letters. Apr. 1980, 7(4), p.243-246, 11 refs.

Jones, W.L., Jr., Harrington, R.F., Fedors, J.C., Couch,

Lake ice, Remote sensing, Microwaves, Radiometry, Ice pectroscopy.

34-3407

Growth of ice discs from the vapor and the mechanism

of habit change of ice crystals.
Keller, V.W., et al, Journal of crystal growth, July 1980, 49(3), p.458-464, 17 refs.
McKnight, C.V., Hallett, J.

Ice crystal growth, Ice crystal nuclei, Vapor diffusion, chambers, Supersaturation, Temperature gradients.

34.3408

High pressure apparatus for PVT measurements of

liquids and plastic crystals at low temperature. Landau, R., et al, Review of scientific instruments. Apr. 1980, 51(4), p.533-535, 16 refs. Würflinger, A.

Crystals, Plastics, Low temperature tests, Liquids, Pressure, Volume, Temperature effects, Measuring

34-3409

Alaskan gas line planners—the elite of Arctic experts. Kelder, B., *Pipeline and gas journal*, Mar. 1980, 207(3), p.54, 58, 91.

Gas pipelines, Research projects, Permafrost beneath structures, Climatic factors, Polar regions.

34.3410

Exploring the Arctic for oil.

Sklarewitz, N., Exxon USA, 1980, 2nd quarter, p.2-5. Sea ice. Ice mechanics. Ice cover strength, Oil recovery, Ice crystal structure, Exploration.

and the state of t

Snow physics, avalanches, mudflows. [Fizika snega,

Javins, self).

Zalikhanov, M.Ch., ed. Nalchik Vysokogornyi geoliicheskii mstitut Trudy. 1980, Vol.46, 160p., In Russian For individual papers see 34-3412 through 34-3430 Refs. passim

Avalunches, Snow cover distribution, Metamorphism Avalunches, Snow cover distribution, Metamorphism

(snow), Snow recrystallization, Snow temperature, Air temperature, Avalanche forecasting, USSR-

Snow cover development and its dependence on winter temperature and slope exposition in the El'brus Mountain area. (Osobennosti razvitiia snezhnot tolsh-

Mountain area. Ossobennosti razvittia snezmnoi toisnehi i zavisimosti ot temperaturnykh uslovit zimy i ekspozitsii sklonov v Priel'brus'ej, kunaeva, G.M., et. al. Nal'chik. Vysokogornyi geolizicheski mistutti. Trudy, 1980, Vol.46, p.3-12, ln Russian. 17 refs.

Metamorphism (snow), Snow recrystallization, Snow temperature. Air temperature. Avalanche forecasting. Snow cover structure.

Avalanche regime of the El'brus Mountain area.

(Lavinny) rezhim Priel brus'ia), Urumbaev, N.A. Val'chik. Vysokogornyi geofizi-cheskii institut – Trudy. 1980, Vol.46, p.13-20. In

Snow cover distribution, Snow cover structure, Snow recrystallization, Avalanche formation, Avalanche forecasting, Slope orientation, USSR—El'brus forecasting, Slope Mountain.

Friable zones in snow cover and their meaning in avalanche formation. ¡O gorizontakh razrykhleniia v snezhnol tolshche i ikh znachenii v lavinoobrazovanii; Bolov, V.R., et al, Nal'chik. Vysokogornyi geofizi-cheskii institut. Trudy. 1980, Vol.46, p.21-28, In

Zalikhanov, M.Ch., Shabel'nikov, V.A. Snow cover structure, Metamorphism (snow), Avalanche formation.

34-3415

Mechanism of avalanche formation from snow slabs with friable zones. (O mekhanizme obrazovanija lavin iz snezhnoi doski pri nalichii gorizonta razrykhleniia), Bolov, V.R., Nal'chik. Vysokogornyi geofizicheskii institut. Trudy, 1980. Vol.46, p.29-42, In Russian. 20 refs.

Avalanche formation, Snow cover structure, Snow cover stability.

Methods and results of artificial avalanche triggering in the El'brus Mountain area. [O rezul'tatakh i metodike iskusstvennogo spuska lavin v Priel'brus'ej, Bolov, V.R., et al. Nal'chik. Vysokogornyi geofizi-cheskii institut. Trudy, 1980, Vol.46, p.43-46, In

Russian. 11 refs. Sokolov, L.V., Shabel'nikov, V.A. Avalanche formation, Avalanche triggering, Detonation waves, Snow slides, Avalanche engineering.

Determining optimal time for artificial triggering of fresh snow avalanches. ¿K voprosu opredelenija naibolee blagopriiatnogo vremeni dlia aktivnogo voz-delstviia na svezhevypavshii sneg s tsel'iu obrusheniia

lavinj, Khalkechev, V.A., Nalchik, Vysokogornyi geofizi-cheskii institut, Trudy, 1980, Vol.46, p.47-52, In Russian, 1 ref.

Slope processes, Snow cover stability, Avalanche formation, Avalanche triggering.

Regularities governing snow cover stability on slopes.

Regularities governing snow cover stability on slopes. (O nekotorykh zakonomernostiakh ustotchivosti snezhnogo pokrova na sklone).

Mironov, V.N., et al, Nal'chik. Vysokogornyi geofizicheski institut.

Trudy, 1980, Vol.46, p.53-56, In Russian. 1 ref.

Khalkechev, V.A.

Slope processes, Snow cover stability, Snow cover structure, Avalanche formation, Analysis (mathemat-

Thickness of fluid film on ice crystal surfaces, ik suprosu o tolshehme zhidkoi plenki na poverkhnosti kris-

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Snow cover distribution, Sea ice distribution, Snow depth, Snow density, Remote sensing, LANDSAT, Mapping, Computer applications, Monitors.

Computer mapping, based on the Landsat digital data, can aid the efficient management of one of New Zealand's resources the annual snowpack. The same techniques are effective in supporting antarctic cartography, glaciology, and surface operations. The development of digital analysis and enhancement techniques for the routine semi-automated evaluation of Land-sat data is illustrated. The 1979 field program will concentrate on an instrumented snow basin for a water yield study. An outline of this satellite ground program is presented. (Auth.)

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Computer applications.

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Water waves, Wind factors, Wave propagation, Forecasting, Arctic Ocean.

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Andreev, O.V. DLC TE175.B32

Roads, Design, Permafrost, Swamps, Gullies, Karst, Mountains, Tunnels, Deserts, Saline soils, Roadbeds, Embankments, Soil stabilization, Slope stability.

Forest fires in Yakutia and their influence on forest environments. [Lesnye pozhary v lAkutii i ikh vliianie

chytolinetts, [2007], p. 1200, p. 1200,

Taiga, Forest fires, Forest canopy, Litter, Forest soils, Revegetation, USSR—Yakutia.

34-3602

Large-scale prognostic maps of mountain vegetation in Central Sikhote-Alin forests. [Metodika krup-

nomasshtabnogo prognoznogo kartografirovania rastitel'nosti gornykh territorii (na primere lesnoi rastitel'nosti Srednego Sikhote-Alinia), Kiselev, A.N., Geobotanicheskoe kartografirovanie (Geobotanical mapping) edited by V.B. Sochava and T..., Isachenko, Leningrad, Nauka, 1979, p.8-21, In Russian. 23 refs.

Alpine landscapes, Forest land, Vegetation, Forecasting, Maps.

34-3603

Geography and cartography of pine forests in southern taiga and the broad-leaf area of the European USSR. ¡Sosnovye lesa iuzhnot chasti taezhnot i shirokolistvennolesnot oblastet evropetskot chasti SSSR: geografiia i kartografiia), Gribova, S.A., et al, Geobotanicheskoe kartografirova-

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Taiga, Landscape types, Maps, Geobotanical interpretation.

34-3604

Structural features of soils developed on different types of perennially frozen strata. [Osobennosti stroeniia pochvennogo pokrova na raznykh tipakh mnogo-

letnei merziotyj. Alifanov, V.M., Struktura pochvennogo pokrova i ispol'zovanie pochvennykh resursov (Soil cover structure and utilization of soil resources) edited by V M Fridland, Moscow, Nauka, 1978, p.136-141. In Rus-

sian. 4 refs. DLC S599.45.A1S77

Soil structure. Soil formation.

34-3605

Structure of taiga soils in the Tomsk area of Priob'e. O strukture pochvennogo pokrova taezhnot zony Tomskogo Priob'ia1.

Geras'ko, L.I., Struktura pochvennogo pokrova i ispol'zovanie pochvennykh resursov (Šoil cover structure and utilization of soil resources) edited by V.M. Fridland, Moscow, Nauka, 1978, p.144-148, In Rus-

sian. 2 refs. DLC S599.45.A1S77

Taiga, Landscape types, Cryogenic soils, Paludification, Soil formation.

34-3606

Age of rock glaciers in the Altai Mountains. [Kamen-

nye gletchery i ikh vozrast na Altaej, Ivanovskil, L.N., Voprosy dinamicheskol geomorfologii (Problems in dynamic geomorphology) edited by L.N. Ivanovskii, Irkutsk, 1977, p.125-137, In Rus-

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DLC GB438.R9V64
Alpine landscapes, Geocryology, Slope processes,
Rock glaciers, Age determination, Glacial erosion,
Moraines, Ground ice, USSR—Altai Mountains.

34-3607

Cryogenic relief of bald peaks in Pribaykal'e and Northern Transbaykal. [Kriostrukturnyĭ rel'ef gol'tsov Pribatkal'ia i Severnogo Zabatkal'ia,

Vyrkin, V.B., Voprosy dinamicheskol geomorfologii (Problems in dynamic geomorphology) edited by L.N. Ivanovskii, Irkutsk, 1977, p.138-163, In Russian. 15

DLC GB438.R9V64

Alpine landscapes, Geocryology, Frost weathering, Slope processes, Talus, Rock streams, Patterned ground, Permafrost distribution, Permafrost thickness. Snow cover distribution.

34-3608

Evaluating the possibilities of forecasting swamp transformations due to land reclamation. ¡Otsenka vozmozhnostel prognozirovaniia preobrazovaniia bolotnykh massivov pri khozialstvennom osvoenii ter-

ritorii),
Galeta, I.F., Dolina Nizhnego Irtysha (Lower Irtysh
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Irkutsk, 1978, p.12-22, In Russian. 19 refs.
DLC GB327.177D64

Land reclamation, Swamps, Peat, cryogenic soils, Environmental protection.

34-3609

Heat and moisture content of taiga lands in the Irtysh River area. (Kharakteristika teplo- i vlagoobespechen-

Nikitin, S.P., Dolina Nizhnego Irtysha (Lower Irtysh River valley) edited by G.V. Bachurin and I.B. Petrov, Irkutsk, 1978, p.23-33, In Russian. 19 refs. DLC GB327.177D64

Taiga, Soil water, Snow cover distribution, Snow water equivalent, Evaporation, Biomass, Analysis (mathematics).

Ice conditions of rivers in the West Siberian taiga zone, (Analiz ledovogo rezhima rek taezhnot zony

Zapadnot Sibiri),
Martynov, B.D., Dolina Nizhnego Irtysha (Lower Irtysh River valley) edited by G.V. Bachurin and I.B. Petrov, Irkutsk, 1978, p.63-74, In Russian. 16 refs. DLC GB327.177D64

Taiga, River ice, Ice conditions, Icebound rivers, Ice breakup, Ice jams, Ice forecasting, Charts.

14.3611

Biomass of microorganisms in the forest-swamp geosystems of southern taiga in the Irtysh River area. Biomassa mikroorganizmos y leso-bolotnot geosis-

(Biomassa mikroorganizmov v leso-bolotnot geosisteme iuzhnotaezhnogo Priirtysh'iaj.

Antonenko, A.M., et al, Dolina Nizhnego Irtysha (Lower Irtysh River valley) edited by G.V. Bachurin and I.B. Petrov, Irkutsk, 1978, p.74-80, In Russian. 6 refs

Nikitina, Z.I., Nechaeva, E.G. DLC GB327.177D64

Taiga, Cryogenic soils, Swamps, Peat, Soil microbiology.

34-3612

Microflora and biological activity of flood-plain soils in the Lower Irtysh River area. [Mikroflora | biologi-cheskara aktivnost potmennykh pochy Nizhnego Irty-

Nikitina, V.G., Dolina Nizhnego Irtysha (Lower Irtysh River valley) edited by G.V. Bachurin and I.B. Petrov, Irkutsk, 1978, p.81-88, In Russian. 7 refs. Petrov. Irkutsk, 1978, DLC GB327.177D64

Cryogenic soils, Soil microbiology, Flood plains, USSR-Irtysh River.

34-3613

Experimental evaluation of polarization coefficients of light reflected from snow surfaces. [Eksperimental'naia otsenka koeffitsienta poliarizatsii sveta, otrazhanaia otsenka koetutsienta samuelingo snezhnol poverkhnost'uj, et al. Kiev. Ukrainskii nauchno-institut.

Mel'kher, A.N., et al, Kiev. Ukrainskii nauchno-issledovatel'skii gia-ometeorologicheskii institut. 1 uay. 1979, Vol.174, p.113-110, in Russian. o reis. Volkov, A.D.

Snow optics, Solar radiation, Albedo, Reflection, Snow surface, Air pollution, Snow impurities.

34.3614

Correlation between physiological-biochemical indices of woody plants and hydrothermal conditions of media. O korreliatsii fiziologo-biokhimicheskikh pokazatelei drevesnykh rastenii s gidrotermicheskimi

usloviiami sredyj, Zhiboedov, P.M., et al, Botanicheskie issledovaniia za poliarnym krugom (Botanical studies beyond the Arctic circle) edited by L.M. Luk'ianova, Apatity, 1978, p.106-118. In Russian. 20 refs.

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Subarctic landscapes, Environmental protection, Human factors engineering.

Water repellant plasticizing admixtures for cements, grouts and concretes. ¡Gidrofobno-plastifitsiruiush-chie dobavki dlia tsementov, rastvorov i betonova, Khigerovich, M.I., et al, Moscow, Stroiizdat, 1978, 125p., In Russian with English table of contents enclosed. 237 refs. Baler, V.E.

Concretes, Frost resistance, Concrete admixtures, Waterproofing, Plastic properties, Surfactants, Concrete strength, Winter concreting.

34-3616

Icebreakers and coastal winter navigation in Finland. Eisbrecher und Winterverkehr an den Küsten Finnlands<sub>1</sub>, Seewirtschaft. May 1980, No.5, p.256-259, In

Ice navigation, Icebreakers, Sea ice distribution, Cold weather operation.

34-3617

Dynamics of hailstones.

Zoltán, C., *Idójarás*, Mar.-Apr. 1980, 84(2), p.78-82, In English with Hungarian summary. 5 refs.

Falling bodies, Hailstones, Dynamic properties, Meteorological factors, Wind velocity.

34.3618

Optimized linear variable differential transformer

displacement transducer for cryogenic use. Sponagle, N.C., et al, Review of scientific instruments, June 1980, 51(6), p.759-761, 2 refs. Atherton, D.L.

Cryogenics, Low temperature research, Electric equipment, Transformers.

34-3619

Report on glaciological operations in 1978. ¡Relazioni della Campagna Glaciologica 1978], Geografia fisica e dinamica quaternaria, 1979, 2(2), p.129-166, In Ital-

Glacier surveys, Stereophotography, Glacier flow, Glacier tongues, Italy. 34-3620

Particular landforms of glacial deposition in the terminal area of the Pisgana Glacier (Rhaetian Alps, Adamello Group). Particolari forme di deposito glaciale nell'area terminale del Ghiacciaio del Pisgana

(Alpi Retiche, gruppo dell'Adamello), Smiraglia, C., Geografia fisica e dinamica quaternaria, 1979, 2(2), p.167-172, in Italian with English sum-mary. 30 refs.

Glacial deposits, Geomorphology, Landforms, Sediments. Italy-Alps.

34-3621

Nucleation of ice by sorption on monodisperse silver iodide particles in the 20-1200A diameter size range. Rosinski, J., et al. Journal of physical chemistry. June 12, 1980, 84(12), p.1464-1468, 22 refs. Cooper, G., Kerrigan, T.C.

Ice nuclei, Ice crystal growth, Nucleating agents, Silver iodide. Particles.

34.3622

Water and ice nucleation sites from ion implantation of silicon

Stinebaugh, W.H., et al, Journal of physical chemistry. June 12, 1980, 84(12), p.1469-1473, 13 refs Sparlin, D.M., Kassner, J.L.

Ice crystal nuclei, Ice crystal growth, Heterogeneous nucleation, Ions, C. ld chambers, Damage, Silicon, 34-3623

Ice core and ice cement effects on soil development,

eastern Wright Valley, Antarctica.

Bockheim, J.G., New Zealand journal of geology and geophysics, 19/9, 22(4), p.487-493, 20 refs.

Ground ice, Soil formation, Antarctica—Wright Val-

formation on hummocky drift behind Trilogy. Loop, and C end moraines in eastern Wright Valley. Soils on the Trilogy and Loop hummocks contain fewer salts and are coarser in texture than soils on the associated end moraines. Lack of soil development on hummocks is due to frost heaving and sorting, and while soils on hummocks behind the Loop end moraine may be as old as c. 135,000 y. B.P., they have properties more closely resembling the 18,000-year-old Trilogy soils. Data suggest that soil chromosequences may be invalid where component soils have been disturbed by frost action, and that soils on comparable sites must be used for comparative weathering studies. (Auth.) The presence of an ice of

34-3624 International Workshop on the Seasonal Sea Ice Zone, Monterey, California, Feb. 26-Mar.1, 1979. Andersen, B.G., ed, Cold regions science and technology, Apr. 1980, Vol.2, MP 1292, 357p., For individual papers see 34-3625 through 34-3632 or B-23446, F-23442 through F-23445, and F-23447. Weeks, W.F., ed, Newton, J.L., ed.

Meetings, Sea ice. Pack ice. Ice pileup, Acoustics, Climatology, Ecology, Oceanography.

This volume comprises a series of state-of-the ort papers by individual authors, followed by disciplinary panel statements offering research suggestions and identifying particular problems with the discipline under consideration. Several interdisciplinary panel reports are included air-sea-ice interactions, biological interactions, engineering interactions, and acoustic

34-3625

Overview (International Workshop on the Seasonal Sea Ice Zonej. Weeks, W.F., Cold regions science and technology, Apr. 1980, Vol.2, MP 1293, p.1-35, 2 refs.

Sea ice distribution, Seasonal variations, Meetings, Models, Air water interactions, Ice water interface, Meteorology, Engineering, Oceanography, Offshore drilling.

This overview is an attempt to summarize the principal conclu sions that can be drawn from the workshop. The article is divided into three sections: disciplinary studies (ice, oceanography, meteorology and climatology, biological regimes, hydroacoustics, coastal processes), interdisciplinary studies; and engineering aspects of offshore resource exploration in the polar regions. Modeling of a wide variety of processes is discussed. 34-3626

Ice characteristics in the seasonal sea ice zone.

Wadhams, P., Cold regions science and technology, Apr. 1980, Vol.2, p.37-92, Refs. p.81-87. Includes disciplinary panel statement, p.90-92.
Fast ice, Wave propagation, Ice breakup, Shear prop-

erties, Models, Frazil ice, Young ice. Although the bulk of this article is devoted to north polar ice, antarctic sea ice is discussed briefly, primarily to point out the

great scarcity of facts known about it and to stress the entities different nature of antarctic sea ace from arotic.

34-3627

Physical oceanography of the seasonal sea ice zone. Physical oceanography of the seasonal sea ice zone. McPhee, M.G., Cold regions science and technology. Apr. 1980, Vol.2, MP 1294, p.93-132, Refs p.116-118 Includes disciplinary panel statement, p.119-132. Polynyas, Oceanography, Sea ice, Ice water interface, Seasonal variations, Salinity, Ice edge.

This literature review is divided into four parts. The first deals with the role of continental shelves at the margins of polar oceans in maintaining water masses, the second emphasizes how the ocean might affect the advance and retreat of ice not contained by land, the third describes some special conditions found in the shear zone, and the fourth is a brief look at experimental techniques and instruments

14.1678

Meteorology and climatology of the seasonal sea ice

Barry, R.G., Cold regions science and technology, Apr. 1980, Vol.2, p.133-156, Refs. p.147-150,156.

Includes disciplinary panel statement. Se ice, Pack ice, Seasonal variations, Atmospheric circulation, Polynyas, Meteorology, Climatic factors, tce . r interface.

him has seasonal sea fee zone is defined by the seasonal range of it. Imits, its meteorological characterization is not readily destribed in a systematic manner. Moreover, the ice limits are des abed in a systematic manner. Moreover, the ice limits are not solely determined by meteorological factors, nor does the SSIZ set up a unique chinatological regime. Acer dunly), this literature survey reviews selected aspects of large-scale circulation processes and examples of specific regional interactions both in the Arctic and Antarctic. Problem areas are then identically the selection of the problem areas are then identically the selection of the problem areas are then identically the selection of the problem areas are then identically the selection of the problem areas are then identically the selection of the problem areas are then identically the selection of the problem areas are then identically the selection of the problem areas are then identically the selection of the problem areas are then identically the selection of the problem areas are then identically the selection of the problem areas are then identically the selection of the problem areas are then identically the selection of the problem areas are then identically the selection of the problem areas are then identically the problem areas are the problem areas are then identically the problem areas are the problem areas are then identically the problem areas are the problem areas are then identically the problem areas are the problem ar

34-3629

Interrelationships between the seasonal sea ice and

hiological regimes.

Alexander, V., Cold regions science and technology,

Apr. 1980, Vol.2, p.157-184, Refs. p.175-178. Includes disciplinary panel statement

Sea ice, Algae, Ecology, Biomass, Seasonal variations

tions.

The relation of seasonal sea ice with biological regimes is dis-cussed under the following headings ice flora, ice-edge phytoinvertebrates, fishes, birds and mammals. The current state of knowledge is reviewed and suggestions are made for further needed research

34-3630

Arctic hydroacoustics.

Diachok, O., Cold regions science and technologs. Apr. 1980, Vol.2, p.185-207, Refs. p.199-201. Includes disciplir ary panel statement.

Ice acoustics, Sound waves, Noise (sound), Sea ice, Pack ice, Ice edge, Ice water interface, Wave propa-

34-3631

Shore ice pile-up and ride-up: field observations, models, theoretical analyses.

Kovacs, A., et al. Cold regions science and technology. Apr. 1980, Vol.2, MP 1295, p.209-298, Refs. p.282-Includes disciplinary panel statement. Sodhi, D.S.

Shores, Coastal topographic features, Ice pileup, Sea ice. Fast ice. Pressure ridges. Mathematical models. 34-3632

Numerical modeling of sea ice in the seasonal sea ice

zone. Hibler, W.D., III, Cold regions science and technology, Apr. 1980, Vol.2, MP 1296, p.299-356, Refs. p.317-320. Includes disciplinary panel statement. Sea ice, Seasonal variations, Computerized simulation, Ice models, Mathematical models.

Various approaches to modelling sea use have been tried by investigators; the author discusses the suitability of different types of simulations for particular research goals. Empirical studies are also reviewed. Literature covered relates to see in both arctic and antarctic regions.

34-3633

Polar atmosphere-ice-ocean processes: a review of polar problems in climate research.

Polar Group, Reviews of geophysics and space physics, May 1980, 18(2), p.525-543, Refs. p.540-543. Baker, D.J., Radok, U., Weller, G Research projects, Climatology, Oceanography, Sea

ice, Ice air interface, Air water interactions, Models. Ice, Ice air interface, Air water interactions, Models. Interactions of the atmosphere, ice, and the oceans in the polar regions are reviewed in the context of global climate. Cryospheric processes and their feedback mechanisms are discussed, with emphasis on sea ice, the polar energy balance, meridional heat exchange processes in both the atmosphere and the ocean, and the paleoclimatic record stored in ice sheets and snow Present modeling capabilities and parameterizations of polar ice, atmosphere, and ocean processes and their interactions are described. Further advances in our understanding of polar processes call for studies of ice dynamics and of energy transfers by radiation, convection, and advection, in both atmosphere radiation, convection, and advection, in both atmosphere d ocean. The relationship of the energy transfers to mesosand ocean

The Later Street Command 12

cale and large-scale circulation features, to the moving pack ice. cate and large-scale circulation features, to the moving pack ice boundaries, and to the annual growth and decay of ice in both hemispheres affects the energy balance and circulation and is a key factor in the global climate system. Further progress will demand systematic monitoring of climate processes in both polar regions, using an increasingly sophisticated satellite technology for the establishment of a polar climate data set (Auth.)

### 34-3634

Development of a high-speed rotary snowplow (HTR-

Sasaki, T., et al, U.S. Army Cold Regions Research ADA-086 586, Translation from Engineering report, Vol.6, No.46, p.38-50. Horikawa, G.

Snow removal, Snow accumulation, Snowdrifts, Equipment.

Equipment.

The development of a rotary snowplow designed to remove 3000 tons hour of snow at a speed of 20 km/hr is described. The four-wheel-drive vehicle was designed for use in areas of Hokkaido where snow accumulation and drifting are a major problem. It is powered by a 700-hp diesel engine and weighs about 22,000 kg. The snow removal equipment consists of a two-stage blower with cone ribbon serew type auger. The device has been tested in heavy snow conditions with snowslides and drifting, with excellent results and only minor mechanical problems.

### 34-3635

Evaluating reliability of steel structures at low temperatures. [K otsenke nadezhnosti stal'nykh stroitel'nykh konstruktsit pri nizkikh temperaturakh,

nykh konstruktsii pri nizkikh temperaturakh, sil'vestrov, A.V., et al. Russia. Ministerstvo vysshego isrednego spetsial'nogo obrazovaniia. Izvestiia vysshikh uchebnykh zavedenii. Stroitel'stvo i arkhitektura, 1980, No.3, p.9-13, In Russian. 9 refs. Motsetchik, E.A.

Steel structures, Cold weather performance.

### 34-3636

More accurate experimental value of shear strength

More accurate experimental value of shear strength of grounds. tK utochneniiu eksperimental nykh znachenii soprotivleniia gruntov sdviguj, Zhikhovich, V.V., Russia. Ministerstvo vysshego i srednego spetsial nogo obrazovaniia. Izvestiia vysshikh uchebnykh zavedenii. Stroitel stvo i arkhitektura, 1980, No.3, p.21-23, In Russian. 2 refs. Clay soils, Shear strength, Test equipment, Accuracy.

### 34.3637

Frost resistant concretes with combined structuremodifying admixtures. [Morozostolkie betony s kom-

pleksnymi modifikatorami strukturyj, Gen', O.P., Russia. Ministerstvo vysshego i srednego spetsial nogo obrazovaniia. Izvestiia vysshikh ucheb-nykh zavedenii. Stroitel stvo i arkhitektura, 1980, No.3, p.58-61, In Russian. 3 refs.

Air entrainment, Winter concreting, Concrete admixtures, Concrete strength, Concrete freezing, Frost resistance.

# 34-3638

Recording geothermal flow by thermal aerial survey.
[O registratsii geotermal'nykh potokov teplovoi

Corpyl, V.I., Karizhenski, V.E.

Aerial surveys, Geothermy, Infrared photography, Photointerpretation, Airborne equipment.

Microbiological description of northern taiga bog-

podzolic soils. Shamin, A.A., et al. *Soviet soil science*, Mar.-Apr. 1979, No.2, p.151-156, Translated from Pochvovede-Varfolomeev, L.A.

Taiga, Landscape types, Permafrost distribution, Cryogenic soils, Forest soils, Soil microbiology.

# 34-3640

Morphogenetic profile analysis as a basis for the reconstruction of soil formation conditions (as exemplified by the permafrost soils of the Nercha Basin). Gugalinskaia, L.A., et al, Soviet soil science, May-June 1979, No.3, p.261-273, Translated from Pochvovedenie. 18 refs Alifanov, V.M.

Cryogenic soils, Soil formation, Soil profiles, Forest land. Steppes.

Aerial gamma survey of snow cover in mountains. [Ob aviatsionnol gamma-s"emke snezhnogo pokrova v go-

Nikiforov, M.V., Meteorologiia i gidrologiia, Jan. 1980, No.1, p.77-83, In Russian with English summary. 10 refs.

Snow surveys, Aerial surveys, Gamma irradiation, Snow cover distribution, Snow depth, Snow water equivalent.

### 34-3642

Pressure of ice field adfreezing to cylindrical supports of offshore on well platforms with water-level fluc untions. [Vozdelstvie primerzshego ledianogo polia pri izmenenii urovnia vody na tsilindricheskie opory neftepromyslovykh platform<sub>1</sub>.

Vershinin, S.A., et al. Neftepromyslovoe stroitel'stvo. 1980, No.4, p.9-11, In Russian. Evdokimov, G.N. Oil wells, Offshore structures, Supports, Ice loads,

Water level.

## 34-3643

Speed of icebreaker movement in the Azov Sea. (Ledoprokhodimost' Azovskogo moria), Siniurin, IU., Morskoi flot, 1980, No.3, p.20-21, In Russian

Ice navigation, Icebreakers, Velocity, USSR-Azov

### 34.3644

Ice breaking rescue vessel. [Ledokol'noc spasatel'noc sudnoj. Morskoi flot, 1980, No.3, p.29, In Russian. Icebreakers, Ice navigation, Rescue operations, Rescue equipment.

### 34-3645

Estimated glaze ice and wind loads at the earth's sur-

Estimated giaze fee and wind loads at the earth's surface for the contiguous United States.

Tattelman, P., et al, L'.S. Air Force. Cambridge Research Laboratories. Air Force surveys in geophysics, Oct. 16, 1973, No.277, 35p., AD-775 068, AFCRL-TR-73-0646, 4 refs.

Gringorten, I.I. Ice storms, Wind pressure, Glaze, Ice loads, Loads (forces), Forecasting, Ice cover thickness, Statistical data, United States.

## 34-3646

Draft environmental impact statement, Prudhoe Bay Oil Field Waterflood Project.

U.S. Army Corps of Engineers, Alaska District, Anchorage, Alaska, June 1980, 2 vols., Refs. passim. No

microfiche available.

Pipelines, Cold weather construction, Environmental impact, Environmental protection, Legislation, Pollu-tion, Research projects, United States—Alaska— Prudhoe Bay.

# 34-3647

Vehicles for conditions in the North. U.S. Army Foreign Science and Technology Center. Technical translation. Mar. 1980, FSTC-HT-1271-79, 2p., Translation from Voenna tekhnika, 1974, No.1, p.31. Vehicles, Thermal insulation, Polar regions, Disign, Engines.

Little Ice Age: Northern Hemisphere average observations and model calculations.

Robock, A., Science, Dec. 21, 1979, Vol.206, p.1402-1404, 30 refs.

Climatic changes, Ice age theory, Volcanic ash, Solar radiation, Models.

# 34-3649

Decay kinetics of excess electrons in crystalline ice. Warman, J.M., et al, *Journal of physical chemistry*, May 15, 1980, 84(10), p.1240-1248, 50 refs. Haas, M.P. de, Verberne, J.B.

Ice crystals, Ions, Dynamic properties, Electrons, Decay.

# 34-3650

Mechanism of formation of visible-absorbing excess electrons in crystalline ice near 273K.

celectrons in crystaline ice near 278s.
Gillis, H.A., et al, Journal of physical chemistry, May
15, 1980, 84(10), p.1248-1252, 17 refs.
Teather, G.G., Ross, C.K.
Ice crystals, Physical properties, Temperature effects, Heavy water, Ions, Electrons.

Absolute rate constant of the reaction OH + H202 to HO2 + H2O from 245 to 423K.

Keyser, L.F., Journal of physical chemistry, June 26, 1980, 84(13), p.1659-1663, 29 refs.

Hydrogen bonds, Low temperature research, Temper ature effects.

### 34-3652

Portable drilling equipment for shallow permafrost

sampling. Veillette, J.J., et al, Canada. Geological Survey. per, 1980, No.79-21, 35p., In English with French

per, 1980, No. 79-21, 35p., In English with French summary. 30 refs.
Nixon, F.M.
Drills, Permafrost physics, Core samplers, Frozen ground strength, Compressive properties, Equipment.

Glacial to interglacial changes in ocean chemistry.

100 Ac. W.S. Iaii 1981 27p + 138

Prepared for CIMAS Symposium. 23 refs.

Sea water, Water chemistry, Glacial meteorology, Paleoclimatology, Marine deposits, Ice cores, Drill core analysis.

Classical European glacial stages: correlation with

deep-sea sediments.
Kukla, G., Nebraska Academy of Sciences. Transactions, 1978, Vol.6, p.57-93, Refs. p.88-93.
Alpine glaciation, Radioactive age determination, Marine deposits, Paleoclimatology, Pleistocine, Loess, Climatic factors, Bottom sediment.

Dynamics of snow and ice masses.

Colbeck, S.C., ed. MP 1297, New York, Academic Press, 1980, 468p., Numerous refs. passim., Numerous refs. For individual papers see 34-3656 through 34-3662 or F-23452 through F-23455.

DLC GR2403.2 D95 Ice sheets, Ice shelves, Glaciers, Sea ice, Icebergs.

Ice sheets, Ice shelves, Glaciers, Sea ice, Icebergs. This book review the dynamical aspects of snow and ice masses on the geophysical scale. It is divided into seven chapters, each of which describes the basic features of a particular snow or ice mass. In each chapter a conceptual fraint-work is established on a physical basis, and a mathematical description is provided with as many references to the technical literature as space allows. No attempt is made to address particular applications of the information, but the physical and mathematical descriptions of the properties and processes provide for both an understanding of snow and ice masses and a basis through which particular problems can be addressed.

Ice sheets and ice shelves.

Paterson, W.S.B., Dynamics of snow and ice masses, edited by S.C. Colbeck, New York, Academic Press, 1980, p.1-78, Refs. p.73-78. GB2403.2.D95

Ice sheets. Ice shelves. Ice mechanics. Ice models. Ice

Ice sheet dynamics are discussed primarily in terms of the Antarctic and Greenland ice sheets. The treatment is subdivided into the following topics: theoretical background, flow of ice sheets: numerical modeling of ice sheet changes: flow of ice shelves; temperature in ice sheets and ice shelves; and instabilities in ice sheets

# 34-3657

Temperate valley glaciers.
Raymond, C.F., Dynamics of snow and ice masses, edited by S.C. Colbeck, New York, Academic Press, 1980, p.79-139, Refs. p.135-139, DLC GB2403.2.D95

Valleys, Glaciers, Glacier surges, Glacier mass balance, Glacier flow, Glacier oscillation, Rheology, Creep, Stresses.

Sea ice growth, drift, and decay.
Hibler, W.D., III, MP 1298, Dynamics of snow and ice mass. edited by S.C. Colbeck, New York, Academic Press, 1980, p.141-209, Refs. p.205-209.
DLC GB2403.2.D95

Drift. Sea ice. Thickness, Ice cover thickness, Ice surface, Ice formation, Models, Ice strength, Simulation. This review of the dynamics of sea nee is organized into the following sections: general characteristics of sea ice; physics of sea ice growth, drift and decay (ice thickness distribution, thermal processes and ice drift and deformation); and numerical simulation of sea ice growth, drift and decay.

34-3639 Iceberg drift and deterioration. Robe, R.Q., Dynamics of snow and ice masses, edited by S.C. Colbeck, New York, Academic Press, 1980, p.211-259, Refs. p.257-259. DLC GB2403.2.D95

# Icebergs, Drift, Ice melting.

and the second of the second o

This review comprises five aspects of icebergs, their sources; global drift patterns; local iceberg drift (forces such as wind and water drag and Coriolis force); deterioration (wave effects, heat transfer from water and radiation); and future trends in re-

54-3000 Freshwater ice growth, motion, and decay. Ashton, G.D., MP 1299. Dynamics of snow and ice masses, edited by S.C. Colbeck, New York, Academic Press, 1980, p.261-304. Rets. p.302-304. DLC GB2403.2 D98.

Lake ice, River ice, Frazil ice, Rivers, Ice jams, Ice breakup, Ice melting, Ice floes, Ice formation.

Seasonal snow cover.

Male, D.H. Dynamics of snow and ice masses, edited S.C. Colbeck, New York, Academic Press, 1980,

DLC GB2403 2 D95

Snow thermal properties, Snow mechanics, Snow-drifts, Turbulent diffusion, Snow density, Snow accumulation

Viewiew fil the literature, this articles deals with the following expects of sine cosect in metamorphism of dry snow equitemper (sine and timperature gradient metamorphism, properties of Ity snow, both mechanical and thermal, blowing snow it urbules diffusion, saltation such mation, accumulation and crosson, snowmelt, and wet snow.

Avalanche release motion, and impact,

Avalanche release, motion, and impact.
Perla, R.I., Dynamics of snow and ice masses, edited
by S.C. Colbeck, New York, Academic Press, 1980,
p. 397-462, Refs. p. 456-462
DI.C. GR2-403.2 D95
Avalanches, Avalanche triggering, Avalanche me-

chanics, Shear stress.

Investigation of aerosol fallout in long-range pollutant transport. [Issledovame vypademi aerozolel pri dal'nem perenose zagriaznianushchikh veshchestv]. Zhigalovskaia, T. N., et al., *Meteorologna i gidrologna*, 1980, No.4, p.47-51 Nazarov, I.M., Fridman, S.D., Renne, O.S.

Snow impurities, Aerosols, Air pollution, Metals.

Short-range forecasting of fall and winter ice dam levels on the lower Volga at Chernyy Yar. [Kratkos-rochnyt prognoz osenne-zimnikh zatornykh urovnet

na nizhnei Volge po punktu Chernyi IAry. Bukharitsin, P.I., Meteorologiia i gidrologiia, 1980, No 4, p.90-95, In Russian with English summary. 25

Ice dams, Ice jams, River ice, Seasonal variations, USSR-Volga River.

34-3665 USCGC Polar Sea cruise report: Deep Freeze 80. U.S. Coast Guard, Seattle, Washington, May 1980,

Ice breaking, Icebreakers, Ice navigation, Ships.

his report on the Cost Guard enter Polar Sea's activities during Operation Deep Freeze 80 is divided into the following sections ship operations; air operations, navigation, communications, science, engineering, administration, supply and logistics, medical, public relations, personnel; and recommendations

14-1666

Timan-Pechora Complex. Construction problems. (Timano-Pechorskii kompleks Problemy stroi Problemy stroitel'stvaj.

Kochurin, N.N., Syktyvkar, Komi knizhnoe izd-vo, 1979, 167p., In Russian with English table of contents

Arctic landscapes, Economic development, Petroleum industry, Construction, Forestry, Mining, Environmental protection, Urban planning.

Ship icing, (Obledenenie sudov). Aksiutin, I.R., Leningrad, Sudostroenie, 1979, 127p.. In Russian with English table of contents enclosed.

Ship icing, Icing rate, Ice accretion, Ice prevention.

# 34-1668

Far North: nature and man. Prospects of economic development. [Sever: priroda i chelovek. Perspektivy

osvoenija; Krinchkov, V.V., Moscow, Nauka, 1979, 127p., In Russian with English table of contents enclosed. 43

Arctic landscapes. Natural resources. Economic development, Environmental protection. Construction, Agriculture, Cryogenic soils. Vegetation.

34-3669

Cross-section, velocity, and bedload data at two erosion sites on the Tanana River near Fairbanks. Alaska, 1979.

Alaska, 1979.

Barrows, R.L., U.S. Geological Survey—Open-file report, 1980, No 80-699, 32p., 4 tefs.
River flow, Shore crossion, Loads (forces), Sediment
transport, Particle size distribution, Water erosion,
United States—Alaska—Tanana River.

Ice problems at a cooling water intake in a tidal estuary at Lingan, N.S.

Skarborn, S., et al, Canadian journal of civil engineering, June 1980, 7(2), p.225-232, 11 refs.

Ice loads, Water intakes, Impact strength, Offshore structures, Cooling systems, Ice solid interface, Salt water, Water waves, Design, Ice conditions.

Dynamic response of bridge piers to ice forces.

Montgomery, C.L. et al. Canadian journal of civil engineering. June 1980, 7(2), p. 345-356, 19 refs. Gerard, R., Lipsett, A.W.

Piers, Bridges, Ice loads, Impact strength, Dynamic loads, Ice breakup.

Plotting through the pack; radar resistant ice. Hames, S.A., Science dimension, 1980, 12(3), p.16-19.

In English and French

Ice navigation, Remote sensing, Pack ice, Ice conditions, Ice strength, Ice cover thickness, Ice water interface, Sounding, Helicopters. 34.3673

Desalination of brackish water by spray freezing:

progress report 1978-79. Spyker, JW., Saskatchewan Research Council Technical report, May, 1980. No.106, 116p., 32 refs. Desalting, Sea spray, Artificial freezing, Salt water. 34-3674

Petrographic observation, of ice samples from Taylor Glacier, Antarctica.

Robinson, P.H., New Zealand antarctic record, 1979, 2(1), p.17-19, 2 refs. Glacier ice, Stratification, Rocks, Regelation, Antarc-

tica-Taylor Glacier.

tica—Taylor Glacier.

There are basically two petrographically-defined zones in the fee of Taylor Glacier. (1) the dominant, debris-free, weakly foliated, very fine to fine-grained bubbly ice, and 2) the suboidinate, restricted englacial and basal debris-bearing, strongly-foliated, fine to medium-grained, alternating bubbly and clear ice. The bubbly ice zone gains its str. time from "normal" primary stratification of the snow and firm in the accumulation areas and subsequent modification by densification and flow. The origin of the alternating bubble and clear ice layers is rather more complex. Possibilities include. 1) melting by frictional drag along faults subparallel to the glacier bed, where tabbles escaping from this melted layer float upwards and are subsequently refrozen, leaving behind, lear ice and 2) bubble layering in cold glacier ce was considered to result from a redistribution of bubbles during flow along primary stratification planes. Regelation by englacial fractional drag may be a likely mode of commation of clear, debris-free ice layers of Taylor glacier. However, it does not explain the debris-rich alternating bubbly and clear ice layers to Taylor glacier. probable origin for such zones is pressure melting and regulation at the glacter sole — (Auth mod.)

# 34.3675

Saline discharge at the snout of Taylor Glacier, An-

tarctica. Ke's, J.R., New Zealand antarctic record, 1979, 2(1), 20-21, 6 refs.

Glacier melting, Glacial hydrology, Meltwater, Salt water, Salinity, Antarctica—Taylor Glacier.

water, Salinity, Antarctica—Taylor Glacier.
At intervals of one to a few years, during the "non summer"
months, some thousands of cubic metres of sality water flows out
from either a crevasse at the northern corner of the snout of
fasylor Glacier, or a source beside the glacier near this crevasse.
This fluid freezes to form an outwash fan (cone), or platform,
of saline ice on the debris-covered mound and delta beside the
glacier. The saline ice fan is usually various shades of orange
in colour, due to small amounts of hydrated iron oxides and silt
in the summers and varis between such discharge events, the in colour, due to small amounts of hydrated fron oxides and silt in the summers and years between such discharge events, the ice fan ablates until there is no saline ice remaining on the mound or delta. However, salty orange englacial layers, present throughout the history of each individual discharge event, remain around the discharge site in the glacier. It is believed that these layers represent crevasses that were flooded with salty water, which then froze, during past discharge events. Field investigations were carried out in Oct. 1978 and Jan. 1979 and a simple model for the discharge was drawn up. (Auth. mod.) mod )

# 34-3676

Eastward ice advances in Wright Valley, Antarctica (Comment).

Robinson, P.H., New Zealand antarctic record, 1979, 2(1), p.22-24, 7 refs. Includes reply by G.G.C. Claridge and I.B. Campbell.

Glacier flow, Antarctica-Wright Valley.

The author postulates a small, hitherto undescribed granite outcrop to the east of the "Aright Upper Glacer as the provenance of granite erratics described by Claridge and Campbell (1978), who reply in rebuttal of the hypothesis

### 34-3677

Hardness of ice and a solar ice melter. Robinson, W.H., et al, New Zealand antaretic record, 1979, 2(2), p.4-8, 4 refs Bibby, B., Tucker, A., Haskell, T., Rodgers, T. Ice hardness, Sea ice, Solar radiation, Equipment, Ice

A simple rig for measuring the displacement of a 6.35 min diameter steel ball into ice under load (10 to 30 N) was developed in the laboratory and used on the ice at Taylor Gla ier tincar. Finger Mour am at the snouth and on the sea ice in McMardo Sooid. As expected the deepth of indentation, h, into the ice varied with time, i. When the results were analyzed to produce a stress-strain rate carse, they were lound to be in gional agreement, with the dislocation moved of creep, where the strain rate is proportional to applied stress. Another project was the testing of a solar collector designed to melt show orice. Over a 6-hou, period (1000 to 1600 hrs. 22 Nov. 1978), the 0.5 sq meter collector produced 3.1. 2 hitres of water from snow, with the surrounding air temperature at -7 to -15C (Auth, mod.). A sample rig for measuring the displacement of a 6.35 mm

### 34-3678

Impact of "extreme" events on the Dry Valleys area. Chinn, T.J.H., New Zealand antarctic record, 1979, 2(2), p.9-13, 3 jets.

Glacial hydrology, Glacier melting, Micro-climatology, Antarctica—Wright Valley, Antarctica—Vanda, Lake, Antarctica—Onyx River. Glacial hydrology,

— Vanda, Lake, Antarctica—Onyx River. Because the Dry Valleys of Antarctica are climatically sensitive custronments where the effects of rare extreme events may create substantial and endual. Leatures, the glaciology hydrology research group reports here two such events and their immediate effects. "heat waves" (temperatures five degrees above normal during Lanuary), an unusually heavy snowfall, and an unexplained heavy flow in the Onyx River.

### 34-3679

Concreting in Antarctica.

Varcoe, G.E., New Zealand antarctic record, 1979, 2(2), p. 14-15, 1-ref.

Concrete aggregates, Construction materials, cretes, Concrete strength, Antarctica-Ross Island.

cretes, Concrete strength, Antarctica—Ross Island. This note summarizes the results of concreting in Antarctica, using local aggregate and simple techniques. During the 1977-78 season (Varcoe 1978) various mixtures made with local aggregates were tested in order to determine strength and workability of mix. The aggregate selected as a result of these tests was no longer available in 1979-80, and the only aggregate available lacked "fines". Despite sub-zero temperatures and poor quality of local aggregate (generally vesicular volcanic scoria and vesicular toff) satisfactory open-air concreting, using only very simple techniques, is possible at Ross Island. If accurate and predictable control of mix is required, a screen and crusher must be used to control quality of aggregate. (Auth mod.) mod )

# 34-3680

Undulations on the McMurdo Ice Shelf near Scott

Base, Antarctica.
Holdsworth, G., et al. New Zealand antarctic record, 1979, 2(2), p 16-22, 17 refs.
Heine, A.J

Surface roughness, Surface properties, Ice shelves, Stresses, Ice deformation, Plastic deformation, Ice density, Ice models, Antarctica--McMurdo Sound.

density, Ice models, Antarctica—McMurdo Sound. Near Scott Base, a restricted area of the McMurdo Ice Shelf shows prominent surface undulations. The deformation is evidently caused by compressive forces which are transmitted horizontally through the ice shelf as it flows obliquely into the coastline northeast of Pram Point. The ice is assumed to be everywhere free of the sea bed, and the deformation begins as the horizontal compressive stress reaches a critical value to initiate an instability. Some boreholes data are presented together with some surface strain rates in an attempt to quantify the deformation. In order to do this successfully, we conclude that more observations are necessary. (Auth.) that more observations are necessary (Auth.)

Metallurgical examination of some ice screws. Redfern, R.M., New Zealand antarctic record, 1979, 2(2), p.23-29, 4 refs.

Low temperature tests, Metals, Mechanical tests.

Low temperature tests, Metals, Mechanical tests. "Salewa" ice screws and pitons have been manufactured from both medium and low carbon steels. The former mat-rial has a tensile strength of the order of 800 MPa and is likely to give rise to brithe failures at low temperatures, while the latter has a lower strength of the order of 540 MPa, but is not likely to fail in a brittle manner at low temperatures unless strain-aged. The "Choumard" ice screw was made from a heat-treated high strength alloy of the order of 1230 MPa and is unfikely to give rise to brittle failure at low temperatures. The "Inter-Alp" ice screw examined was made from the lowest strength material (of the order of 300 MPa) of the samples, yet poor metallurgical practice has also given rise to doubts concerning its ductile 'brittle behavior at low temperatures. (Auth.)

The boson was with a west to

Laboratory investigation of river shoreline ice jam forces.

Stewart, D.M., Bozeman, Montana State University,

May 1980, 172p., M.S. thesis. 12 refs. Ice Jams, Ice loads, Impact strength, Ice mechanics, Shear strength, Ice friction, River ice, Floating ice, Experimentation, Ice models.

34-3683

Optimal Stefan type problem. (Ob odnot optimal'not zadache tipa Stefanaj, IUrit, A.D., Akademiia nauk SSSR. Doklady, 1980,

251(6), p.1317-1321, In Russian. 10 refs. Heat transfer, Mass transfer, Phase transformations. Stefan problem.

34-3684

Workshop of the Glaciology Section and tutorial seminar, Zvenigorod, June 1979, (Rabochee soveshchanie sektsii gliatsiologii i shkola-seminar v Zvenigo-

rode v iune 1979 goda). Barbash, V.R., Akademiia nauk SSSR. Institut geo grafii. Materialy gliatsiologicheskikh issledovanii. Khronika obsuzhdeniia, 1979, Vol. 37, p.5-29, In Rus-

Meetings, Sea ice, Icebergs, Snow cover distribution, Maps, Snow accumulation, Avalanche forecasting, Naleds, Mountain glaciers.

Resolutions of the Glaciology Section workshap, June 1979. (Rezoliutsia rabochego soveshchaniia sektsii gliatsiologii, iiun' 1979 goda<sub>1</sub>, Akademiia nauk SSSR. Institut geografii. Materialy gliatsiologicheskikh issledovanii. Khronika obsuzhdeniia, 1979, Vol.37, p.29-33, In Russian.

Naleds, Mapping, Meetings, Sea ice, Snow cover, Climatology, Oceanography, Models, Research projects, Engineering glaciology.

34-3686

All-Union seminar on the organization of avalanche service. [Vsesoiuzny] seminar-soveshchanie po organizatsii sluzhby preduprezhdenit o lavinnot opas-

Grishchenko, V.F., et al. Akademiia nauk SSSR. Institut geografii. Materialy gliatsiologicheskish is-slec'ovanii Khronika obsuzhdeniia. 1979, Vol.37, p.33-36, In Russian.

anaev, L.A., Kulinich, S.V.

Meetings.

34-3687

Mapping ice thickness on rivers and lakes. [O kar-Mapping ite inckness on rivers and takes. To kat-tirovanii tolshchiny l'da na rekakh i ozerakh<sub>1</sub>, Falko, L.I., Akademiia nauk SSSR. Institut geografii. Materialy gliatsiologicheskikh issledovanii. Khronika obsuzhdeniia, 1979, Vol.37, p.36, In Russian.

Ice cover thickness, River ice, Lake ice, Mapping.

Interrelations and succession in the compilation of thematic sections of the World Atlas of Snow and Ice Resources. [O vzaimosviaziakh i posledovatel'nosti sostavlenija tematicheskikh razdelov Atlasa snezh-

sostsyleniia tematicheskikh razdelov Atlasa snezh-no-ledovykh resursov miraj. Dreler, N.N., Akademiia nauk SSSR. Institut geo-grafii. Materialy gliatsiologicheskikh issle Jovanii. Khronika obsuzhdeniia, 1979, Vol.37, p.37-42, In Rus-sian with English summary. 5 refs. Maps, Snow cover, Avalanches, Glacier Ice, Mountain glaciers, Alpine glaciation, Glacial hydrology, Ground

ice, Naleds, River ice, Lake ice.

Compiling 1:600 000 glacier morphology maps of the eastern Pamirs and the Juneau Ice Field. [Osoben-

eastern Pamirs and the Juneau Ice Field. [Osobennosti sostavleniia kart morfologii lednikov masshtaba 1:600 000 (na primere Vostochnogo Pamira i Lednikovogo polia Dzhuno)], Varnakova, G.M., et al, Akademiia nauk SSSR. Institut geografii. Materialy gliatsiologicheskikh issledovanh. Khronika obsuzhdeniia, 1979, Vol.37, p.42-47, In Russian with English summary. 10 refs. Zverkova N.M. Zverkova, N.M.

Maps, Topography, Giacial hydrology, USSR-

Morphological properties of the Tien Shan glacier system in the 1:1 500 000 maps of the World Atlas of Snow and Ice Resources. (Morfologicheskie kharak-teristiki lednikovol sistemy Tian'-Shania na kartakh masshtaba 1.1 500 000 v Atlase snezhno-ledovykh resursov miraj, Vinogradov, O.N., et al, Akademiia nauk SSSR.

Vinogradov, O.N., et al, Akademia nauk 5558. Institut geografii. Materialy gilatsiologicheskikh issledovanii. Khronika obsuzhdeniia, 1979, Vol.37, p.47-56, In Russian with English summary. 12 refs. Konovalova, G.L., Psareva, T.V. Mountain glaciers, Maps, USSR—Tien Shan.

Mapping Alai Range glaciers from photographs taken by the Soyuz-22 spaceship. Primenenie snimkov s kosmicheskogo korablia "Soiuz-22" dlia kartokosmicheskogo korablia "Soiuz-22" dlia grafirovaniia oledeneniia Alatskogo khrebta, Kravtsova, V.I., et al, Akademiia nauk SSSR.

Materialy gliatsiologicheskikh is-Khronika obsuzhdeniia, 1979, Vol.37, geografii. sledovanii. p.56-62, In Russian with English summary. 6 refs. Chalkina, N.F.

Aerial surveys, Spaceborne photography, Mountain glaciers, Spacecraft, Photointerpretation, Mapping.

34-3692

Depiction of glacier areas in the World Atlas of Snow and Ice Resources. [Ob izobrazhenii ploshchadel lednikov v Atlase snezhno-ledovykh resursov miraj, Timofeeya N.A. Akademiia nauk SSSR Materialy gliatsiologicheskikh is-Khronika obsuzhdeniia, 1979, Vol.37, tussian with English summary. 4 refs. sledovanů. p.62-66. In Russian with English summary. 4 refs Glaciers, Mapping, Alpine glaciation, Snow cover.

Compiling 1:3 000 000 glacioclimatic maps for the World Atlas of Snow and Ice Resources. Sostavlenie gliatsioklimaticheskikh kart masshtaba 1:3 000 000

gnasiokimaticneskikh kart masshtaba 1:5 000 000 dlia Atlasa snezhno-ledovykh resursov miraj. Davidovich, N.V., et al, Akademi.a nauk SSSR. Institut geografii. Materialy gliatsiologicheskikh issledovanii. Khronika obsuzhdeniia, 1979, Vol.37, p.66-71, In Russian with English summary. 9 refs. lareeva, A.M.

Maps, Climatology, Glaciology, Mountain glaciers, Microclimatology, USSR—Caucasus.

34-3694

Calculating dates of stable snow in the Central Asian and Kazakhstan mountains from standard meteoro-logical information. (Opyt rashcheta srokov zaleganiia ustolchivogo snezhnogo pokrova v gorakh Srednei Azii i Kazakhstana po standartnol meteorologicheskol

informatsiii, Severskii, I.V., et al, Akademiia nauk SSSR. Institut geografii. Materialy gliatsiologicheskikh issledovanii. Khronika obsuzhdeniia, 1979, Vol.37, p.71-79, In Russian with English summary. 11 refs. Pimankina. S.V.

Altitude, Snow accumulation, Snow melting, Mountain glaciers, Snow lines.

Determining snow cover characteristics in unstudied areas. Metodika opredeleniia kharakteristik snezhnogo pokrova dlia neizuchennykh territorilj.

Getker, M.I., et al, Akademiia nauk SSSR. Institut geografii. Materialy gliatsiologicheskikh is-sledovanih. Khronika obsuzhdeniia, 1979, Vol.37, p.79-84, In Russian with English summary. 5 refs. Glazytin, G.E., Kadomtseva, T.G. Snow surveys, Snow cover distribution, Snow depth,

Snow water equivalent, Mapping.

Comparative evaluation of indirect Computation methods of determining ratios of various precipitation types. ¡Sravnitel'naia otsenka metodov kosvennogo rascheta doli osadkov raznykh vidov v ikh obschchel summe<sub>1</sub>.

Bogdanova, E.G., et al, Akademiia nauk SSSR. stitut geografii. Materialy gliatsiologicheskikh issledovanii. Khronika obsuzhdeniia. 1979, Vol.37, p.84-89, In Russian with English summary. 6 refs. Glazyrii., G.E.

Precipitation (meteorology), Snowfall, Rain, Alpine glaciation, Alpine landscapes, Water balance.

34-3697

Duration and intensity of solid precipitation in North America (indirect calculations and mapping). (Prodolzhitel'nost' i intensivnost' tverdykh osadkov Severnot Amerike (opyt kosvennogo rascheta i kartirovanijah.

Bogdanova, E.G., et al, Akademiia nauk SSSR stitut geografii. Materialy ghatsiologicheskikh is-sledovanii. Khronika obsuzhdeniia, 1979, Vol.37, p.89-94, In Russian with English summary. 15 refs Struzer, L.R., Ashkinazi, T.V. Precipitation (meteorology), Snowfall, Mapping.

14.1608

Combined method of calculating glacial runoff in mountains. [Kompleksnyi metod rascheta led-nikovogo stoka gornykh oblastel],

Mkotogo stoka goriykin obiasteri, Vladimirov, L.A., Akademiia nauk SSSR. Institut geografii. Materialy gliatsiologicheskikh is-sledovanii. K. ronika obsuzhdeniia, 1979, Vol.37, geografii. sledovanii. p.94-99, In Russ an with English summary. 9 Glacial hydrolog, Runoff, Mountain glaciers. 9 refs.

Compiling map for developing recreation areas in mountains. Opyt sostavleniia kart rekreatsionnogo

osvoeniia gorj. Suprunenko, IU.P., Akademiia nauk SSSR geografii. Materialy gliatsiologicheskikh is-sledovanii. Khronika obsuzhdeniia, 1979. Vol.37, p.99-107, In Russian with English summary. 23 refs. Alpine landscapes, Mapping, Economic development.

34-3700

Collecting data for the World Atlas of Snow and Ice Resources in the USA and Canada. [Sbor materialov dlia Atlasa snezhno-ledovykh resursov mira v SShA i

Kanade<sub>1</sub>, Dreler, N.N., et al, Akademiia nauk SSSR. geografii. Materialy gliatsiologicheski Materialy gliatsiologicheskikh is-Khronika obsuzhdeniia, 1979, Vol.37, sledovanii. p.107. In Russian.

Kotliakov, V.M. International cooperation, Maps, Snow cover distribution, Glaciation, Mountain glaciers, Sea ice, Land ice, Aerial surveys.

34-3701

Radar sounding of Spitsbergen glaciers from helicopters. [Radiolokatsionnoe zondirovanie lednikov Shpitsbergena s vertoletas.

bergena s vertoleta), Macheret, IU.I.A., et al, Akademiia nauk SSSR. In-stitut geografii. Materialy gliatsiologicheskikh is-sledovanh. Khronika obsuzhdeniia, 1979, Vol.37, p.109-131, In Russian with English summary. 24 refs.

Mountain glaciers, Aerial surveys, Helicopters, Airborne radar, Radar echoes, Norway—Spitsbergen.

Selective melting of lake ice. [lAvlenic izbiratel'nogo

Selective metting of inace ice. [PAviente Pointerino]
taianiia ozernogo l'da<sub>3</sub>,
Zimov, S.A., et al, Akademiia nauk SSSR. Institut
geografii. Materialy gluatsiologicheskikh issledovanii. Khronika obsuzhdeniia, 1979, Vol.37, p.121, In Russian. Govorushko, S.M.

Polynyas, Ice melting, Thermokarst lakes, Lake ice, Ice cover thickness, Icebound lakes.

Computerized solution of two-dimensional inverse problems of radar surveys of ice thickness and subglacial relief of mountain glaciers. [Reshenie dvumerno] obratnol zadachi radiolokatsionnol s"emki tolshchiny i'da i podlednogo rel'efa gornykh lednikov s pomoshch'iu EVM<sub>3</sub>,
Berikashvili, V.Sh., et al. Akademiia nauk SSSR. In-

stitut geografii. Materialy gliatsiologicheskikh is-sledovanii. Khronika obsuzhdeniia, 1979, Vol.37, p.131-139, In Russian with English summary. 7 refs. Macheret, IU.IA.

Mountain glaciers, Ice cover thickness, Subglacial observations, Airborne radar, Radar echoes, Computer applications.

34-3704

Determining mountain glacier volumes from heli-copter radar survey data. (Opredelenie ob"ema gor-nykh lednikov po dannym radiozondirovaniia s ver-

toleta<sub>1</sub>, Zhuravlev, A.B., Akademiia nauk SSSR. Institut geo grafii. Materialy gliatsiologicheskikh issledovanii. Khronika obsuzhdenija. 1979. Vol. 37. p. 140-148. In Russian with English summary. 31 refs.

Mountain glaciers, Ice volume, Ice cover thickness,
Radar echoes, Airborne radar.

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14.3705

Possibilities of linear models for calculating glacial

rusoff hydrographs, (Vozmozhnosti inetnykh modelei dha rascheta gidrografa ledmkovogo stoka). Freidhin V.S., Akademiia maik SSSR — Institut geografii — Materialy glintsiologicheskikh issledovanii. Ahronika obsuzhdeniia, 1979, Vol.37, p.149-155, In Russian with English summary — 12 refs.

Glacial hydrology, Runoff, Mountain glaciers, Mathematical models.

34-3706

Snow density variations over ice covers, dzmenenie

Snow density variations over ice covers. [Izmenente plotnosti snega na ledianom pokrove]. Tsurikov, V. L., Akademiia nauk SSSR. Institut geografii. Materialy gliatsiologicheskikh issledovanii. Ahronika obsazhdeniia. 1979. Vol 37. p. 155-161. In Russian with English summary. 9 refs. Sea ice, Ice cover thickness, Ice growth. Alimentation. Snow cover distribution.

tion, Snow cover distribution.

14-1707

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equivalent, Snow surveys, Runoff, USSR-Ural Mountains.

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Glacier surfaces, Heat balance, Glacier alimentation, Glacier ablation, Altitude, Air temperature, Wind fac-

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Avalanche forecasting, Mapping, Avalanche forma-tion. Snow cover distribution, Avalanche triggering, Avalanche mechanics.

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Ice sheets, Ice cores, Isotope analysis, Ice coring

Drilling through the Lazarev Shelt Glacier started in 1974 for Drilling through the Lazarev Shelf Ofacter Started in 19 4 for studying temperature variations in boreholes and underlying water and obtaining sex states at bottom sedimers varieties. In 1977, the testing site for a new thermal drill was selected from radar sounding data. An area of about 1000 in ice thick-ness, located on the Antarctic Ice Sheet slope 40 km south of bottom, developing drilling technique, measuring ice temperature in marginal parts of the ice, and obtaining isotope analyses of ice cores. In 1978 the bottom was reached at 808 m, good core was obtained, and bottom temperature measured as 7 3C. Borehole inchrometric measurements showed ice velocity growing with depth to 600 m with subsequent decrease. The process and drilling technique are discussed.

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Oxygen isotopes, Deuterium.

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Canada. Division of Mechanical Engineering.
Laboratory technical report, Apr. 1979, LTR-LT-97,
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Extraterrestrial ice, Heat balance, Mass balance, Phase transformations, Comets,

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Glacial inception and disintegration during the last glaciation.

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Glacial erosion, Ice sheets, Glacial geology, Paleoclimatology, Glaciation, Climatic changes.

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Study and information meeting on winter trafficability, Nefta, Tunisia, Nov. 8 and 9, 1979. (Réunion d'étude et d'information sur la viabilité hivernale, Nefta (Tunisie), 8 et 9 novembre 1979].

Luon routière de Trance, Révue generale des routes et des aerodromes, Jan. 1980, No.560, p.69-79, In Franch

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Feder, H.M., et al. Alaska. University. Institute of

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Piers, Bridges, Ice loads, Ice pressure, Ice mechanics, Ice strength, Impact strength, Ice breakup, River ice.

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34-3727

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Symposium on Physics and Mechanics of Ice, Cophenhagen, Aug. 6-10, 1979, Berlin, Springer-Verlag, 1980, 378p., Refs. passim. For individual papers see 34-3728 through 34-3752. Tryde, P., ed.

Ice physics, Ice mechanics, Ice creep, Ice navigation, Ice conditions, Rheology, Ice pressure, Loads (forces), Meetings.

Some promising trends in ice mechanics. Assur, A., MP 1300, Symposium on Physics and Mechanics of Ice, Copenhagen, Aug. 6-10, 1979. Proceedings. Edited by P. Tryde, Berlin, Springer-Verlag, 1980, p.1-15, 12 refs.

Ice mechanics, Ice creep, Ice sleets, Stresses, Loads (forces), Ice models, Rheology, Ice cover thickness, Sea ice, Analysis (mathematics).

Sea ice, Analysis (mathematics). Ice sheets are inhomogeneous; properties vary strongly with depth. Theoretical treatment of plates with properties varying perpendicular to the plate has now been satisfactorily developed for floating ice sheets. However, other problems are still waiting for solutions. The use of model ice is developing rapidly Some suggestions of how to analyze such ice are made. Breakthrough-loads on ice sheets diminish with duration of loading, but no satisfactory solution is available based upon classical procedures of applied mechanics.

34-3729

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Ice mechanics, Ice structure, Ice strength, Ice pileup, Applicie (methanistics). Theories

Analysis (mathematics), Theories.

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Numerical model of Penelope ice viscometer flows.
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of polycrystalline ice.

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Ice crystals, Ice creep, Ice elasticity, Ice deformation, Mathematical models.

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Finite element method simulation of large ice mass flow behaviour.

Emery, J.J., et al, Symposium on Physics and Mechanics of <sup>1</sup>ce, Copenhagen, Aug. 6-10, 1979. Proceedings. Edited by P. Tryde, Berlin, Springer-Verlag, 1980, p.82-92, 16 refs. Mirza, F.A.

Ice creep, Ice mechanics, Ice physics, Glacier flow, Slope orientation.

Experience gained by use of extensive ice laboratory

facilities in solving ice problems. Frankenstein, G.E., MP 1301, Symposium on Physics and Mechanics of Ice, Copenhagen, Aug. 6-10, 1979. Proceedings. Edited by P. Tryde, Berlin, Springer-Verlag, 1980, p.93-103, 12 refs.

Ice mechanics, Ice navigation, Ice conditions, Off-shore structures, Ice loads, Floating ice, Icing, Ice pileup, Flooding, Laboratory techniques.

The discovery of offshore oil in ice-infested waters has caused The discovery of offshore oil in ice-infested waters has caused maje: concern to the design engineers. Some of the problems associated with offshore structures are ice forces, icing, and pile-up. Laboratory facilities have and will continue to solve many of the ice problems. The ice problem at navigation locks, for example, has been solved primarily due to laboratory studies. Also, the results of ice forces due to ice uplift have been virtually eliminated by controlled studies. Laboratories are becoming larger and more sophisticated. This should result in an increase in laboratory studies and a decrease in field studies. Solutions will come faster because conditions can be precisely controlled.

Dynamic ice forces on an inclined structure.

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Floating ice, Ice cover strength, Ice mechanics, Ice

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Ice creep, Rheology, Ice mechanics, Ice deformation, Dynamic loads, Ice elasticity, Viscoelasticity, Strains, Stresses, Models. Viscoelasticity, 34-3738

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Danish icebreaker design.

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Jacobsen, B.K.

Icebreakers, Ice strength, Ice friction, Design, Ice breaking.

Creep and relaxation in floating platforms—an analvsis of case histories.

Masterson, D.M., et al, Symposium on Physics and Mechanics of Ice, Copenhagen, Aug. 6-10, 1979. Proceedings. Edited by P. Tryde, Berlin, Springer-Verlag, 1980, p.205-216, 9 refs. Strandberg, A.G.

Floating ice, Ice sheets, Floating structures, Ice loads, Ice creep, Flexural strength, Stresses, Offshore struc-

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Mechanical properties of polycrystalline ice. Mellor, M., MP 1302, Symposium on Physics and Mechanics of Ice, Copenhagen, Aug. 6-10, 1979. Proceedings. Edited by P. Tryde, Berlin, Springer-Verlag, 1980, p.217-245.

Ice crystals, Ice mechanics, Ice elasticity, Ice creep, Ice strength, Ice cracks, Viscoelasticity, Stress strain diagrams, Brittleness, Temperature effects.

Mechanical model of creep of polycrystalline ice with cracking activity.

Michel, B., Symp-sium on Physics and Mechanics of Ice, Copenhagen, Aug. 6-10, 1979. Proceedings. Edited by P. Tryde, Berlin, Springer-Verlag, 1980, p.246-264, 12 refs. Ice crystals, Ice creep, Ice cracks, Ice deformation, Ice elacificity. Ice plasticity, Ice loads, Brittleness, Models.

Models.

34-3746

34-3/40
Application of fracture mechanics to ice problems.
Miller, K.J., Symposium on Physics and Mechanics of Ice, Copenhagen, Aug. 6-10, 1979. Proceedings. Edited by P. Tryde, Berlin, Springer-Verlag, 1980, p.265-277, 35 refs.
Ice mechanics, Ice cracks, Ice elasticity, Stress strain

diagrams, Ice plasticity, Analysis (mathematics).

34-3747

Bending and buckling of a wedge on an elastic founda-

Nevel, D.E., MP 1303, Symposium on Physics and Mechanics of Ice, Copenhagen, Aug. 6-10, 1979 Proceedings. Edited by P. Tryde, Berlin, Springer-Verlag, 1980, p.278-288, 5 refs. Ice wedges, Foundations, Elastic properties, Ice cracks, Flexural strength, Loads (forces), Ice defor-

mation, Analysis (mathematics).

When an ice sheet begins to slide up a sloping structure, the ice cracks radially form the structure creating wedges. Beam theory is used to analyze these wedges under the influence of but horizontal and vertical forces. Buckling and bending of these wedges are considered.

34-3748

Plastic limit analysis f sheet ice loads on conical structures

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wall surfaces.

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Analytical approach for the determination of ice

Analysteal approach for the determination of ice forces using plasticity theory.

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Ice sheets, Ice physics, Ice plasticity, Ice pressure, Loads (forces), Ice solid interface, Compressive prop-erties, Ice cover thickness, Mathematical models, Theories.

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Ozaki, A.

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Sokolova, T.A., Kuznetsova, E.G., Sloboda, A.V. DLC S599.45.A1P5885

Taiga, Landscape types, Paludification, Soil formation, Cryogenic soils, Loams, Frozen fines, Soil profiles, Soil chemistry.

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Mountain forests. (Gornye lesa). Sinitsyn, S.G., et al, Moscow, Lesnaia promyshlennost, 1979, 200p., In Russian with English table of contents enclosed. 132 refs.

DLC SD207.G67 Alpine landscapes, Forest land, Forest soils, Cryogenic soils, Slope processes, Rock streams, Landslides, Avalanches.

" Brill DE Will weather.

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Lisit, V.A., Kurennol, V.V., Shevchuk, N.P. DLC QE315.G4287

Permafrost distribution, Permafrost hydrology, Water supply, Baykal Amur railroad.

34-3756

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The Russian with English table of contents enclosed. 11 refs.

Kalganov, V.F.

Clay soils, Bearing strength, Soil stabilization, Foundations, Electroosmosis, Frost penetration, Soil water migration, Frost heave.

Cryogenic physical-geologic processes and their preduction. (Kriogennye fiziko-geologicheskie protsessy i

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Land reclamation in winter, Meliorativnye raboty

zimol<sub>3</sub>, Surikov, V.V., Moscow, Kolos, 1980, 270p., In Russian with English table of contents enclosed. Refs. p.265-

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DLC QK375.P36

Alpine landscapes, Forest land, Taiga, Microclimatology, Cryogenic soils, Permafrost distribution, Permafrost hydrology, Baykal Amur railroad, USSR—Baykal Lake.

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Shestakov, V.N.
Rituminous concretes. Frost resistance. Frost thaw

Bituminous concretes, Frost resistance, Freeze thaw cycles, Roads, Pavements.

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Zadontsev, B.G., et al, Avtomobil'nye dorogi, Mar. 1980, No.3, p.19-20, In Russian.

Plastics, Pavements, Frost resistance, Roads, Mark-

ings. Paints.

Construction of urban roads under northern conditions. ¡Stroitel'stvo gorodskikh dorog v uslovijakh

Severaj, Galuzin, V.M., ed, Leningrad, Strolizdat, 1980, 134p. In Russian with English table of contents enclosed.

Urban planning, Roads, Roadbeds, Permafrost beneath structures, Earthwork, Drainage, Pavements. Winter maintenance.

Seismic characteristics of loess in relation to geologic surroundings and the impact of industrial activities. ¿Selsmicheskie kharakteristiki lessovykh porod v sviazi s geologicheskim okruzheniem i tekhnogene-

zom<sub>1</sub>, Kriger, N.I., et al, Moscow, Nauka, 1980, 103p., In Russian with English table of contents enclosed. Refs. p.95-102.

Aleshin, A.S., Kozhevnikov, A.D., Mindel', I.G. Loess, Earthquakes, Soil water, Thixotropy, Buildings, Foundations, Bearing strength, Settlement (structural), Human factors, Models.

Study of the thermal structure of the antarctic ice cap. Burdecki, F., Notos, 1967, 16(1/4), p.47-69, Refs. p.67-69.

Ice thermal properties, Ice sheets, Ice temperature, Heat sinks, Fleat transfer.

An attempt is made to elaborate a model of the thermal structure of the antarctic cap frock plus ice). The model is based on results of seismic investigations and charts of ice surface temperatures. Taking into consideration the terrestrial heat conduction, the improbability of an extremely low heat condition (negative stored heat) in Antarctica, mad the present distribution of surface temperatures, a "key- imperature" of -10C at sea level at the South Pole is assumed. From temperature cross-sections along 40 meridians, with due consideration to the specific heat of rock and ice, a mean temperature of -24.6C for the whole antarctic cap was derived, that for West Antarctica being -17.7C and for East Antarctica -25.5C. It is found that fother factors which contribute to the growth or decrease of the antarctic ice are in exact equilibrium, an influx of terrestrial heat from below would need a minimum of 368,000 years to annihilate the antarctic ice mass. It is inferred that in the present state the ice amount is not far from its physical maximum. Probably the ice cover of East Antarctica is shrinking slightly at present, whereas the west antarctic ice masses are growing in spite of some regional exceptions. (Auth. mod.) An attempt is made to elaborate a model of the thermal struc-

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Banks (waterways), Shore erosion, Landforms, River ice, Permafrost, Fast ice.

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—Gulf of Alaska, Bering Sea.

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Hydroctimatic influence of forests. (Gigro-kinnati-cheskoe vilianie lesa). Protopopov, V.V., ed. Novosibirsk, Nauka, 1979. 144p., In Russian. For selected papers see 34-3769 through 34-3775. Refs. passim. Forest land, Hydrology, Climatology, Forest soils, Water erosion, Protective vegetation, Litter, Forest

canopy, Snow cover distribution, Environmental protection, Rivers, Thermal regime, Ice conditions, Drainage.

34-3750

Thermal icaime of rivers in Central and West Siberian plains. Cobennosti termicheskogo rezhima rek ravninnykh landshaftov Srednel i Zapadnol Sibiri, rek ravninnykh landshattov srednet i Zapadnoi Slottj, Protopopov, V.V., et al., Gidro-klimaticheskoe vliianie lesa (Hydroclimatic influence of forests) edited by V.V. Protopopov, Novosibirsk, Nauka, 1979, p.4-24, In Russian. 17 refs. Ziubina, V.I. Plains, Swamps, Taiga, Rivers, Permafrost beneath rivers, Thermal regime, Ice conditions.

Forest and hydrological regionalization of Central Siberla. [Lesogidrologicheskoe ratonirovanie Srednet Sibirm

ebedev, A.V., Gidro-klimaticheskoe vlijanie lesa (Hydroclimatic influence of forests) edited by V.V. Protopopov, Novosibirsk. Nauka, 1979, p.25-58, In Russian. 21 refs.

Forest land, Classifications, Mapping, Taiga, Cryogenic soils, Evaporation, Forest canopy, Soil erosion, Snow cover distribution, Snow water equivalent.

34-3771

Hydrophysical properties of forest litter and its soil-

protective role. (Vodno-fizicheskie svolstva lesnykh podstilok i ikh pochvozashchitnaia rol'), Krasnoshchekov, IU.N., et al. Gidro-klimatichesko clianie lesa (Hydroclimatic influence of forests) edited by V.V. Protopopov, Novosibirsk, Nauka, 1979, p.59-68. In Russian. 9 refs.

Taiga, Landscape types, Cryogenic soils, Soil erosion, Litter, Mosses.

14-3777

Selective felling effect on water-controlling properties of Khamar-Daban pine forests. [Izmenenic vodoreguliruiushchikh svoisty sosniakov Khamarvodoreguliruiushenikn svoistv sosmiskov kallindi Dabana pod vozdeistviem vyborochnykh ruboky, Biziukin, V.V. Gidro-klimaticheskoc vlijanie lesa (Hydroclimatic influence of forests) edited by V.V. Protopopov, Novosibirsk, Nauka, 1979, p.69-78. In

Russian. 13 refs.

Taiga, Permafrost distribution, Slope orientation, Snow cover distribution, Soil temperature, Snowmelt, USSR—Khamar Daban Range.

Evaluating soil stability to washout. [Opredelenie ustośchivosti pochy k razmyvu i ee otsenkaj,

ustoichivosti pochy k razmyyu i ee otsenkaj. Kuklin, V.V., et al. Gidro-klimaticheskoe vliianie lesa (Hydroclimatic influence of forests) edited by V.V. Protopopov, Novosibirsk, Nauka, 1979, p.79-82, In Russian. 6 refs. Krasnoshchekov, IU.N

Taiga, Cryogenic soils, Water erosion, Slope stability, Protective vegetation.

34-3774

Annual distribution of water balance elements through the altitudinal forest belts of the Lake Baykal Basin. [Vnutrigodovoe raspredelenie elementov vodnogo balansa po vysotnym lesorastitel'nym poiasam v basseine oz. Baikal].
Lebedev, A.B., et al., Gidro-klimaticheskoe vliianie

lesa (Hydroclimatic influence of forests) edited by V.V. Protopopov, Novosibirsk, Nauka, 1979, p.83-95,

In Russian. 12 refs. Uskova, L.M. River basins, Water balance, Permafrost distribution, Permafrost hydrology, Icebound rivers, USSR-Bay-

34-3775

Water regime of plants in the medium altitude belts of Khamar-Daban and West Sayan Mountains. (Vod-ny) rezhim rastenii srednegornykh poiasov Khamar-

nyl fezhim rastenii srednegornyku poiasov knamar-Dabana i Zapadnogo Saiana<sub>1</sub>, Kozlova, L.N., Gidro-klimaticheskoe vliianie lesa (Hydroclimatic influence of forests) edited by V.V. Protopopov, Novosibirsk, Nauka, 1979, p.96-115, In Russian. 36 refs. Mountains, Taiga, Plant ecology, Plant physiology,

Water supply, Transpiration.

34.3776

Railroad track maintenance under northern condi-

tions. ¡Soderzhanie puti v usloviiakh Severaj, Buzunov, Z.T., Vysokokachestvennoe soderzhanie buzunov, Z., vysokachesvennoe soderzname zheleznodorozhnogo puti (Highly efficient mainte-nance of railroad tracks) edited by I.T. Sharbatov, Moscow, Transport, 1979, p.50-62, In Russian. Railroads, Permafrost beneath structures, Railroad tracks, Damage, Maintenance.

34-3777

and the second s

Organization of a natural kaolinite-iron oxide system in dry and wet states. Relationship between melting temperature of ice and pore size. [Données sur l'organisation d'un système naturel kaolinite-oxyde de fer à l'état sec et à l'état humide. Relation entre la température de fusion de la glace et la taille des pores.] Homshaw, L.G., et al, Academie des sciences, Paris. Comptes rendus hebdomadaires des séances. Serie D. Mar. 31, 1980, 290(13), p.847-850, In French with English summary. 7 refs.

Cambier, P. Clay soils, Porosity, Ice formation, Soil chemistry, Soil water, Soil freezing.

Remote sensing of snow covered area for runoff modelling.

Rango, A., International Association of Scientific Hydrology. Publication, 1980, No.129, Hydrological forecasting. Proceedings of the Oxford Symposium, April 1980, p.291-297, In English with French sum-

mary. 4 refs.
Snow cover distribution, Runoff, Snowmelt, Remote sensing, LANDSAT, Seasonal variations, Models.

Ice nucleus and aerosol measurements in the plume of the Johnstown, Pa., steel mill.

Schnell, R.C., et al. Geophysical research letters, May 1980, 7(5), p.397-400, 7 refs.
Pueschel, R.F., Weickmann, H.K., Wellman, D.L.

Aerosols, Distribution, Ice nuclei, Freezing, Temperature effects.

Identification of ice VI on the Hugoniot of ice I(h). Gaffney, E.S., et al, Geophysical research letters, May 1980, 7(5), p.407-409, 10 refs.

High pressure ice, Ice physics, Stresses, Ice density, Ice crystal structure, Wave propagation.

Sound velocity of supercooled water down to -33C using acoustic levitation.

Trinh, E., et al, *Journal of chemical physics*, June 15, 1980, 72(12), p.6731-6735, 13 refs. Apfel, R.E.

Supercooling, Water, Sound transmission, Acoustic measurement, Velocity.

34-3782

Direct spectroscopic observation of proton exchange and Bjerrum defect migration in cubic ice. Ritzhaupt, G., et al, Journal of chemical physics, June

15, 1980, 72(12), p.6807-6808, 7 refs Devlin, J.P.

Ice physics. Ice crystals, Proton transport, Ice spe troscopy, Infrared spectroscopy, Ions, Defects, Migration, Heavy water.

Predicted timing of the disintegration of the lower

reach of Columbia Glacier, Alaska. Meier, M.F., et al. U.S. Geological Survey. report, 1980, 80-52, 34p. + tables and graphs, 16 refs. Glacier mass balance, Calving, Forecasting, Glacier Now, Ice deterioration, Dynamic properties, Bath-ymetry, Mathematical models, United States— Alaska—Columbia Glacier.

Equilibrium profile of ice shelves.

Sanderson, T.J.O., Journal of glaciology, 1979, 22(88), p.435-460, 28 refs., In English with French and German summaries.

Ice shelves, Profiles, Glacier flow, Glacier thickness, Glacier tongues, Velocity, Models, Ice cover thickness, Antarctica—Erebus Glacier.

ness, Antarctica—Erebus Glacier.

L'sing expressions for ice-shelf creep derived by Weertman and Thomas, a general method is developed for calculating equilibrium thickness profiles, velocities, and strain-rates for any ice shelf. This is done first for an unconfined glacier tongue, and her result agrees well with data for Erebus Glacier tongue, Holdsworth, 1974). Anomalies occu, within the first 3 km after the hinge zone, and these are too great to be the result of local bottom freezing; they are probably due to disturbance of the velocity field. Secondly, profiles are calculated for bay ice shelves. Thickness gradients are largely independent of meltrate or flow parameters but are inversely proportional to the width of the bay. Data from antarctic ice shelves agree with this result both qualitatively and quantitatively. The theory is readily extended to ice shelves in diverging and converging bays. An ice shelf in a diverging bay can only remain intact if it is thick enough and slow enough to creep sufficiently rapidly in the transverse direction. If it cannot, it will develop major rifts or will come adrift from the bay walls. It is then likely to break up. The presence of ice rises or areas of grounding towards the seaward margin can radically alter the size of the ice shelf which can form. The theory could be used as a starting point to study non-equilibrium behaviour. (Auth.)

Analysis of the In-situ resistivity of sea ice in terms of its m'crostructure.

Times, G.W., Journal of glaciology, 1979, 22(88), p.461-471, 24 refs., In English with French and German summaries

Sea ice, Electrical resistivity, Ice strength, Microstructure, Sounding, Brines, Geoelectricity, Ice salinity, Ice temperature. 34-3786

Field study of brine drainage and oil entrainment in

first-year sea ice. Martin, S., Journal of glaciology, 1979, 22(88), p.473-502, 13 refs. In English with French and German

Sea ice. Ice growth, Brines, Oil spills, Surface drainage, Liquid solid interfaces, Ice surface, Ice melting, Ice pollution, Temperature effects, Ice cores.

Evaluation of jet-roof geometry for snow-cornice control.

Dawson, K.L., et al, *Journal of glaciology*, 1979, 22(88), p.503-511, 9 refs., In English with French and German summaries.

Roofs, Snow cornices, Snow accumulation, Slope orientation, Air flow, Computerized simulation.

Time-series modelling of avalanche activity from meteorological data.

Salway, A.A., Journal of glaciology, 1979, 22(88), p.513-528, 18 refs., In English with French and German summaries.

formation, Avalanche forecasting. Avalanche Meteorological data, Models, Avalanche mechanics.

34-3789

Forces on structures impacted and enveloped by avalanches.

Pedersen, R.R., et al, Journal of glaciology, 1979, 22(88), p.529-534, 4 refs., In English with French and German summaries.

Lang, T.E.

Impact strength, Avalanche mechanics, Structures, Snow loads, Velocity, Pressure, Stresses, Models, Avalanche deposits.

34-3790

Saw-tooth moraines in front of Bodalsbreen, southern Norway.

Matthews, J.A., et al, Journal of glaciology, 1979, 22(88), p.535-546, 39 refs., In English with French and German summaries

Cornish, R., Shakesby, R.A.

Moraines, Glacial deposits, Norway-Bodalsbre Gla-

Recommendation for the application of the Roche index for slab avalanche release.

Sommerfeld, R.A., et al. *Journal of glaciology*, 1979, 22(88), p.547-549, 7 refs., In English with French and German summaries. King, R.M.

lanche mechanics, Shear strength, Snow slides, Statistical analysis, Indexes (ratios), Snow strength, Stresses.

34-3792

Performance of V.H.F. aerials close to a snow surface. Doake, C.S.M., et al, Journal of glaciology, 1979, 22(88), p.551-553, 3 refs., In English with French and German summaries. Gorman, M.

Aerial surveys. Snow surface temperature. Air temperature, Sounding.

34-3793

The iceberg cometh.

Weeks, W.F., et al, Technology review, Aug.-Sep 1979, 81(8), MP 1305, p.66-75, 6 refs.

Iceberg towing.

The potential of towing icebergs to arid regions in the Southern Hemisphere is reviewed. Formidable technical problems exist, some proposed solutions are listed. However, very little has been done to test the technology proposed. Towing, insulation, routes, and other aspects of iceberg-towing technology should be investigated by a trial tow to Western Australia, the area most favorably located for southern iceberg delivery.

Two models for estimating climate-glacier relationships in the North Cascades, Washington, U.S.A. Tangborn, W., Journal of glaciology, 1980, 25(91), p.3-21, Refs. p.19-21. In English with French and Ger-

Models, Glacier mass balance, Glacial meteorology, Climatic factors, Precipitation (meteorology), Air temperature, Runoff.

34-3795

Airborne UHF radio echo-sounding of three Yukon

Narod, B.B., et al, Journal of glaciology, 1980, 25(91), p.23-31, 10 refs., In English with French and German summaries.

Clarke, G.K.C.

Glacier thickness, Radio echo soundings, Airborne equipment, Profiles, Glacier surveys, Mapping, 34.3796

Morphology and dynamics of ice rises.

Martin, P.J., et al, *Journal of glaciology*, 1980, 25(91), p.33-45, 27 refs. In English with French and German summaries

Sanderson, T.J.O.

Ice mechanics, Ice creep, Ice deformation, Compressive properties, Ice physics, Ice shelves, Profiles, Ice heat flux, Ice cover thickness, Antarctica—Antarctic Peninsula.

Pennisura.

People surveys are presented of four ice rises on the east coast of the Antarctic Pennisula. On Butler Island velocity measurements were also made. The ice rises behave as miniature ice caps frazien to flat horizontal bedrock and provide a simple system for the study of law of ice flow. Deformation is principal. caps frozen to flat horiz intal bedrock and provide a simple system for the study of law of ice flow. Deformation is principally by shear through the ice mass. Each ice rise is bounded on one side by ice shelf and on the other side by open sea. Inwards open sea the profiles are found to agree well with steady-state theoretical profiles. Towards ice shelf the profiles are clongated, and they deviate from the theoretical profiles may be due to compressive stress in the ice shelf, causing migration of the grounding line down sloping bedrock. No significantly anomalous behaviour is found in the summit region (Auth mod.) (Auth mod )

14-3797

Creep of ice, geothermal heat flow, and Roosevelt

Tisland, Antarctica.
Thomas, R.H., et al, Journal of glaciology, 1980, 25(91), p.47-60, 33 refs.. In English with French and

German summaries.
MacAyeal, D.R., Bentley, C.R., Clapp, J.L.
Ice creep, Ice mechanics, Geothermy, Heat transfer, Velocity, Recrystallization.

Velocity, Recrystallization.

Measurements of ice velocity, thickness, and surface topography on the large ice rise known as Rousevelt Island are consistent with Glen's flow law. Assuming that near the center of the ice rise, where the effects of recrystallization are probably negligible, the ice behaves in the same way as randomly-oriented polycrystalline ice, then the geothermal flux G in this area is appreximately 0.06 W/sq m. In the absence of measurements of deep-ice temperatures, the distribution of G across the ice rise cannot be determined. However, the simplest interpretation of the movement data requires (1) a linear increase in G from 0.05 W/sq m on the north-cast side of Rousevelt Island to 0.07 W/sq m in the south-west, and (2) strain-rate enhancement, due to recrystallization, that increases outward from the center of the ice rise to reach a maximum value of approximately two near the edges. The calculated values of G are larger than the world average, but this is consistent with the probably grantice core beneath Roosevelt Island. An increase in G of 0.02 W/sq m in a distance of 600 km would require an increase in grantic thickness of about 5 km. (Auth. mod.) 34-3798 34-3798

Thermohydrodynamic model of an ice sheet.

Verbitskii, M.I.A., et al, Journal of glacology, 1980, 25(91), p.61-67, 5 refs., In English with French and German summaries. Chalikov, D.V.

Thermodynamic properties, Hydrodynamics, Glacier flow. Thermal conductivity, Ice sheets, Ice surface, Ice temperature, Ice temperature, Velocity, Mathematical models.

ematical models. The purpose of this paper is to consider an ice-sheet model based on joint solution to the dynamic equations and equations of heat conductivity in which the surface relief is one of the inkinon functions. The proposed model is applicable to calculation of the antaretic ice sheet. Results of a numerical experiment for present values of the temperature of the ice surface and precipitation, as well as for their separate and simultaneous increase by 2, 4, or 6 deg and 10, 20 or 30%, are given. (Auth.)

34-3799

Glaciological investigations of the tropical Quelccaya ice cap, Peru.

Thompson, L.G., Journal of glaciology, 1980, 25(91), p.69-84, 13 refs., In English with French and German summaries.

Mountain glaciers, Glaciology, Snow stratigraphy, Glacier surveys, Glacial meteorology, Particles, Icc cores, Seasonal variations, Snow temperature, Paleoclimatology, Air temperature.

34-3800

Microwave brightness of polar firn as measured by

Nimbus 5 and 6 ESMR.
Chang. A.T.C., et al. Journal of glaciology, 1980, 25(91), p.85-91, 19 refs... In English with French and German summaries. Choudhury, B.J., Gloersen, P.

Microwaves, Firn, Brightness, Snow optics, Remote sensing. Temperature effects.

. have in this order

The microwave emission from a half-space medium, characterized by coordinate dependent scattering and absorbing centers, has been calculated by numerically solving the radiative transfer equation by the method of invariant imbedding. A Mic scattering phase function and surface polarization have been included in the calculation. Also included are the physical temperature profile and the temperature variation of the index of refraction for ice. Using published values of grain-size and temperature profile and the temperature variation of the index of refraction for ice. Using published values of grain-size and temperature-profile data of polar firn, the brightness temperature has been calculated for the 1.55 cm and 0.8 cm wavelengths. For selected regions in Greenland and Antarctica, the results of our calculations are in reasonable agreement with the observed Nimbus-5 and Nimbus-6 EMSR data. (Auth.) The microwave emission from a half-space medium, character-

Pendular-funicular liquid transition in snow.
Denoth, A., Journal of glaciology, 1980, 25(91), p.93-97, 7 refs. In English with French and German sum-

Snow permeability, Dielectric properties, Liquid solid interfaces, Porosity, Snow water content, Drainage, Water flow.

34-3802

34-3801

Pressure waves in snow.

Brown, R.L., Journal of glaciology, 1980, 25(91), MP 1306, p.99-107, 9 refs., In English with French and German summaries.

Shock waves, Snow density, Loads (forces), Snow strength, Shear stress, Snow compression, Analysis (mathematics).

A dynamic constitutive law is used to study the response of medium-density snow to shock waves. The results show good correlation between theory and caperiment, except for low-intensity shocks which produce small permanent density changes. In this case the validity of the data is questioned, although further experimental work is needed to settle this question. The results of this work also partially explain why snow so effective in absorbing energy associated with stress waves. This is tell to be due to the work-hardening characteristics of

34-3803

Nivation: an arctic-alpine comparison and reap-

praisal.
Thorn, C.E., et al, Journal of glaciology, 1980, 25(91), p.109-124, 40 refs. In English with French and German summaries.

Hall, K. Nivation, Snow cover distribution, Geomorphology, Freeze thaw cycles, Weathering, Solifluction, Polar regions, Alpine glaciation.

34-3804

Scanning electron microscope examination of subglacial quartz grains from Camp Century core, Green-

land—a preliminary study.
Whalley, W.B., et al, Journal of glaciology, 1980, 25(91), p.125-131, 13 refs., In English with French and German summaries. Langway, C.C., Jr.

Subglacial observations, Glacier beds, Scanning electron microscopy, Glacial deposits, Eolian soils, Sands, Geomorphology.

34-3805

Dynamic behaviour of dislocations in HF-doped ice

Perez, J., et al, Journal of glaciology, 1980, 25(91), p.133-149, 16 refs. In English with French and Ger-

man summaries.
Mar, C., Tatibouët, J., Vassoille, R

Doped ice, Ice mechanics, Ice crystal structure, Internal friction, Temperature effects, Velocity, Mathematical models

34-3806

Does the permanent creep-rate of polycrystalline ice

Duval, P., et al. Journal of glaciology, 1980. 25(91), p.151-157, 15 refs. In English with French and German summaries.

Ice creep, Ice crystal size, Grain size, Rheology, Ice mechanics, Temperature effects, Stresses, Strains, Compressive properties.

34-3807

Elastic constants of ice by Brillouin spectroscopy. Gammon, P.H., et al, Journal of glaciology, 1980, 25(91), p.159-167, 28 refs.. In English with French and German summaries.

Kiefte, H., Clouter, M.J. Ice elasticity, Ice spectroscopy, Ice crystal structure, Rheology.

34-3808

Fast light-weight core drill.

Johnsen, S.J., et al, *Journal of glaciology*, 1980, 25(91), p.169-174, 4 refs., In English with French and German summaries.

Ice coring drills, Equipment.

34-3809

Field techniques for experimental stress analysis in

Arctic sea ice. Cochran, G.V.B., Journal of glaciology, 1980, 25(91), p.175-182, 18 refs. In English with French and German summaries

Sea ice, Glacier ice, Stresses, Shear strain, Electrical resistivity, Compressive properties, Temperature ef-

34-3810

Existence of multiple steady states in the flow of large ice masses.

Fowler, A.C., Journal of glaciology, 1980, 25(91), p.183-184, 3 refs., In English with French and German summaries

Ice mechanics, Ice sheets, Glacier flow, Ice thermal

34-3811

Bottom crevasses.

Weertman, J., Journal of glaciology, 1980, 25(91), p.185-188, 10 refs. In English with French and German summaries.

Ice shelves, Iceberg towing, Crevasses, Freezing, Floating ice, Ice temperature, Theories.

Floating ice, Ice temperature, Theories.

An approximate calculation is made of the rate which a bottom crevases in a cold ice shelf or tabular iceberg can close shut by freezing of water and can creep open through the creep deformation of ice. In all but the thickest ice shelves and iceberg, those with a thickness greater than about 400 m, the freezing process is the more important mechanism if the ice is cold (<-10C). Consequently, in a cold iceberg or ice shelf, a bottom crevasse, once formed, will freeze shut. Results of the calculation are applicable to the computation of the expected disease. culation are applicable to the computation of the expected disintegration of towed icebergs. (Auth. mod.)

34-3812

Regimes of landscape-geochemical processes in geo-systems. [Rezhimy landshaftno-geokhimicheskikh protsessov v geosistemakh], Snytko, V.A., ed, Irkutsk, 1977, 120p., In Russian, For selected papers see 34-3813 through 34-3819.

Refs. passim.

Kochurov, B.I., ed, Nechaeva, E.G., ed. DLC GB405.R48

Taiga, Soil composition, Soil formation, Swamps, Soil chemistry, Cryogenic soils, Soil water, Snow cover effect, Topographic factors.

Metabolism of organic matter in south taiga soils of East Siberia. [Metabolizm organicheskogo vesh-chestva v pochvakh iuzhnol talgi Zapadnol Sibiri]. Nechaeva, E.G., et al, Rezhimy landshaftno-geokhimicheskikh protsessov v geosistemakh (Regimes of landscape-geochemical processes in geosystems) edited by V.A. Snytko, B.I. Kochurov and E.G. Nechaeva, Irkutsk, 1977, p.9-24, In Russian. 28 refs. Davydova, N.D. DLC GB405.R48

Taiga, Soil composition, Soil profiles, Soil formation.

34-3814

Dynamics of soil-geochemical indices in taiga permafrost geosystems. Dinamika pochvenno-geokhimicheskikh pokazatelet v merzlotno-taezhnykh geosis-

temakhj, Shchetnikov, A.I., Rezhimy landshaftno-geokhimicheskikh protsessov v geosistemakh (Regimes of landscape-geochemical processes in geosystems) edited by V.A. Saytko, B.I. Kochurov and E.G. Nechaeva, Irkutsk, 1977, p.43-58, In Russian. 12 refs. DLC GB405.R48

Taiga, Landscape types, Mountains, Cryogenic soils, Soil composition, Soil chemistry.

34-3815

Geochemical structure of West Sayan foothill geosystems. ¡Geokhimicheskaia struktura predgornykh geo-

sistem Zapadnogo Saiana, Kochurov, B.I., et al, Rezhimy landshaftno-geokhimi-cheskikh protsessov v geosistemakh (Regimes of landscape-geochemical processes in geosystems) edited by V.A. Snytko, B.I. Kochurov and E.G. Nechaeva, Irkutsk, 1977, p.59-72, In Russian. 10 refs.

Grechushkina, L.I. DLC GB405.R48

Mountain soils. Snow cover distribution. Snow depth. Snow water equivalent, Soil water, Vegetation, Chemical composition.

34-3816

Dynamics of soil and geochemical indices in central talga geosystems. Dinamika pochvenno-geokhimi-cheskikh pokazatelei srednetaezhnykh geosistem<sub>1</sub>, Sazonov, A.G., Rezhimy landshaftno-geokhimicheskikh protsessov v geosistemakh (Regimes of landscape-geochemical processes in geosystems) edited by V.A. Snytko, B.I. Kochurov and E.G. Nechaeva, Irkutsk, 1977, p.73-84, In Russian. 4 refs. DLC GB405.R48

Taiga, Landscape types, Paludification, Soil forma-tion, Cryogenic soils, Sporadic permafrost, Soil wa-ter, Soil chemistry, Topographic effects.

34-3817

Residential complexes for oil and gas field workers in West Siberia. Wakhtennye zhilye kompleksy dha stroitelet neftanykh i gazovykh mestorozhdenu

Zapadnot Sibirij, Kravets, V.A., Stroitel'stvo i arkhitektura, 1979, Vol 15, p.52-58, In Russian. Petroleum industry, Residential buildings, Perma-

frost beneath structures, Design.

Improving work organization and quality control at a most important construction site. (Sovershenstvova-nie organizatsii rabot i kontrolia kachestva na vazhnei-

shel strotkey, Pelevin, I.V., Stroitel'stvo truboprovodov, May 1980, No.5, p.20-21, In Russian.

Gas pipelines, Permafrost hydrology, Permafrost beneath structures, Underground pipelines, Swamps, Pipe laying, Welding, Earthwork, Quicksand.

34-3819

Development of a specialized production base in West Siberia, ¡Zadachi razvitiia otraslevot proizvodstvennoi bazy v Zapadnot Sibiri<sub>1</sub>, Gorlashkina, G.A., et al, *Stroitel'stvo truboprovodov*, May 1980, No.5, p.21-22, In Russian.

Stojanov A I

Petroleum industry, Construction materials, Construction equipment, Storage, Logistics, Permafrost beneath structures.

34-3820

Pipeline for container transport of viscous oils and petroleum products. [Truboprovodnyi konteinernyi transport viazkikh neftel i nefteproduktov].

Ibragimov, D.B., et al, Stroitel stvo truboprovodov. May 1980, No.5, p.26-29, In Russian.

Petroleum transportation, Hot oil lines, Permafrost beneath structures. Pipelines, Container transporta-

Eliminating breakdowns during the testing of the Surgut-Polotsk oil pipeline. (Likvidatsiia otkazov pri ispytanii uchastka nefteprovoda Surgut-Polotska. Riabov, G.N., Stroitel stvo truboprovodov, May 1980, No.5, p.32-33, In Russian. Petroleum transportation, Pipelines, Swamps, Per-

mafrost beneath structures, Maintenance.

Modernized welding assembly PAU1001V for field work, Modernizirovannaja polevaja avtosvarochnaja ustanovka PAU1001V<sub>1</sub>.

ustanowa FACTOOTV; Borutskii, A.I., et al, *Stroitel'stvo truboprovodo*v, May 1980, No.5, p.36-37, In Russian. Gol'dfatn, A.E., Krikun, A.I. Petroleum transportation, Pipelines, Welding, Cold weather construction.

34.3823

Improving the design of structures built in complex ground conditions. (Sovershenstvovanie rascheta soo-ruzhenil vozvodimykh v slozhnykh gruntovykh usloviiakh<sub>1</sub>, Meteliuk, N.S., Kiev, Budivel'nik, 1980, 143p., In Rus-

sian with English table of contents enclosed. Concrete structures, Foundations, Residential buildings, Industrial buildings, Reinforced concretes, Clay soils, Rheology, Bearing strength, Creep, Deformation, Karst.

34-3824

Dehydration of nonmetalliferous construction materials at low temperatures. [Obezvozhivanie nerudnykh stroitel'nykh materialov pr. nizkikh temperaturakh]. Gurevich, V.G., et al. 'eningrad, Stroitzdat, 1980, 70p., In Russian with English table of contents entered these

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Urban planning, Transportation, Economic analysis, Models

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nomerzlykh gruntakh<sub>1</sub>, Rastegaev, I.K., Leningrad, Strolizdat, 1980, 128p., In Russian with English table of contents enclosed. refs.

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34-3828

Reconstruction of paleoclimate from present day geo-

Reconstruction of pareochimate from present day generated thermal data.

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English translations of the forty-nine Soviet papers, the one French paper, and the three invited Soviet the one French paper, and the time envired soviet theme papers, Part 1, Ottawa, Canada, National Re-search Council, Mar. 1980, p.1-12, 4 refs. For Rus-sian original see 23-2364. Paleoclimatology, Permafrost thickness, Active layer, Permafrost thermal properties.

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Malevskii-Malevich, S.P.

Permafrost thermal properties, Active layer, Surface temperature, Heat balance, Taiga, Forest tundra, Hu-

34-3831

Thermal physics of permafrost terrain.

Payloy, A.V., International Conference on Permafrost. 3rd, Edmonton, Alberta, July 10-13, 1978. English translations of the forty-nine Soviet papers, the one French paper, and the three invited Soviet theme papers, Part 1, Ottawa, Canada, National Research Council, Mar. 1980, p.46-61, 12 refs. For Russian original see 32-3673.
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Heat transfer, Permafrost thermal properties.

34-3832

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Kudriavtsey, V.A., et al. International Conference on Permafrost, 3rd, Edmonton, Alberta, July 10-13, 1978. English translations of the forty-nine Soviet papers, the one French paper, and the three invited Soviet theme papers, Part I, Ottawa, Canada, National Research Council, Mar 1980, p.63-79, 29 refs. For Russian original see 32-3677 Melamed, V.G.

Permafrost origin, Frost penetration, Heat transfer, Mass transfer, Active layer, Surface temperature, Radiation balance, Permafrost heat balance, Stefan problem

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Frozen fines, Clays, Mass transfer, Phase transforma-tions, Ground ice, Nuclear magnetic resonance.

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Frozen ground, Ground ice, Hygroscopic water, Soil strength, Deformation.

34.3835

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Permafrost hydrology, Air temperature, Surface temperature, Heat transfer, Mass transfer, Frozen fines.

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34.3837

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Permafrost hydrology. Ground water. Frozen rock

Permafrost hydrology, Ground water, Frozen rock temperature.

34-3838

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Gurov, V.V., Komarov, I.A., Kuchukov, E.Z. Frozen fines, Ground ice, Ice sublimation, Heat transfer, Mass transfer.

34-3839

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gation in freezing and thawing clayey soils. Ershov, E.D. et al. International Conference on Permafrost, 3rd, Edmonton, Alberta, July 10-13, 1978. English translations of the forty-nine Soviet papers. the one French paper, and the three invited Soviet theme papers, Part 1, Ottawa, Canada, National Research Council, Mar. 1980, p.159-175, 11 refs. For Russian original see 32-3689

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ping, Charts.

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ground water, Climatic factors.

34-3842

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Permafrost structure, Ground ice, Ice veins, Pingos,

Thermokarst, Tectonics, Permafrost origin.

34-3843

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type of sedimentary process. Gasanov, Sh.Sh., International Conference on Permafrost, 3rd, Edmonton, Alberta, July 10-13, 1978. English translations of the forty-nine Soviet papers, the one French paper, and the three invited Soviet theme papers, Part 1, Ottawa, Canada, National Re-Russian original see 32-3703

Geocryology, Permafrost origin, Theories.

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Some aspects of the mechanics of frost fracturing of soils in the permafrost zone. Grechishchev, S.E., International Conference on Per-

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and the statement of the solutions

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Frost weathering, Frost shattering, Freeze thaw cycles, Interstitial ice.

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34-3848

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gion.
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Cryosphere, Regionalization.

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Geocryology, Mapping, Maps, Permafrost structure, Permafrost distribution, Permafrost thickness, Lithology.

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drogen bonds, Supercooling.

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Listov, A.A Taiga, Plant ecology, Revegetation, Forestry, Cryo-genic soils, Bibliographies.

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Heat transfer of a pipeline placed in an embankment. [Teploperedacha truboprovoda prolozhennogo

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Radioactive isotope techniques in controlling quality of work and investigations when building foundations and underground structures. (Radioizotopnye metody kontrolia kachestya rabot i issledovanii pri ustrotstve fundamentov i podzemnykh sooruzheniij, Smorodinov, M.I., Moscow, Atomizdat, 1980, 168p. In Russian. 86 refs.

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derground facilities.

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Ecology, Water pollution, Offshore structures, Ice
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Periglacial processes, Polygonal topography, Moun-

tains, Terrain identification, Landforms, Permafrost distribution.

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Haas, W.M.

Embankments, Frozen ground strength, Cold weather construction, Soil compaction, Settlement (structural), Frost penetration, Earthwork, Engineering, Excavation, Stability, Soil physics, Soil temperature.

Tests.

This paper presents the construction procedure, data and analysis from an experimental field program to determine the rippability and compaction characteristics of frozen soil. Also investigated was the stability upon thawing of the frozen soil compacted in the field. From the results of the experimental program, several important conclusions concerning winter earthwork were obtained. 1) Ripping frozen soil can be accomplished with heavy equipment which will produce a large range of chunk sizes. 2) The effectiveness of field compaction of frozen material is highly dependent on the moisture content of the soils. 3) The magnitude of settlement in embankiments constructed of frozen material is closely related to the compacted dry density of the placed soil.

Radio-echo sounding in the Allan Hills, Antarctica, in

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Radio echo soundings, Glacier thickness, Glacier sur-

veys, Ice cover thickness, Pollution, Meteorites, Antarctica-Allan Hills.

tarctica—Alfan Hills.
Radio-echo sounding measurements made on Ross Island and in the Alfan Hills, Antarctica, indicate that radio-echo sounding may offer the unique possibility of detecting a buried meteorite in glacial ice. The results also revealed internal layering within the snow on Ross Island and in the snow filling an ice depression west of Alfan Nunatak. Radio-echo sounding also gave the depth to bedrock near the west side of Alfan Nunatak. The greatest ice depth measured was 310 m.

Aspects of radar signal interpretation in Arctic seashore areas. Obshchemetodicheskie aspekty deshi-frirovaniia radiolokatsionnykh signalov (na primere

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River basins, Taiga, Forest canopy, Snow cover distribution, Snow water equivalent.

# 34-38 78

Postgiacial dynamics of the northern border of the petiolate oak area in the USSR and phylocenogenesis of oak forests in the North. Poslelednikovaia dinamika severnol granitsy areala duba cheresh-chatogo v SSSR i filotsenogenez dubrav Severa<sub>1</sub>, Denisov, A.K., Lesovedenie, Jan.-Feb. 1980, No.1, p.3-11, In Russian with English summary. 34 refs. Forest land, Vegetution, Migration, Cold tolerance, Plant ecology.

Forests in the Vychegda river floodplain, their distri-bution and dynamics. ¿Lesa v poime r. Vychegdy, ikh

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Rubtsov, M.V.

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### 14.1880

Biomass volume and structure in larch forests of the northern Okhotsk Sea region. ¡Zapasy i struktura rastitel'nol massy drevostoev v osnovnykh tipakh list-

rastite noi massy devosited v osnovných tipakh historennichnikov Severnogo Okhotomor'ia<sub>1</sub>.

Moskaliuk, T.A., Lesovedenie, Mar.-Apr. 1980, No.2, p.32-39, In Russian with English summary. 18 refs.

Taiga, Cryogenic soils, Plant ecology, Ecosystems,

Organic substances of soddy-podsolic soils with a second humus zone in the Smolensk area. (Svoistva organicheskogo veshchestva dernovo-podzolistykh pochy so ytorym gumusovym gorizontom Smolenskol oblastij.

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Tolchel'nikov, IU.S., Rastvorova, O.G.

Taiga, Soil composition, Podsol, Soil chemistry, Soil profiles.

Calculating design thickness of layered ice. [Otsenka Afanas'ev, V.P., Meteorologija i gidrologija, Oct. 1979, No.10, p.88-92, In Russian with English sum-

marv. 6 refs Sea ice, Hydraulic structures, Ice loads, Ice cover thickness, Design.

### 34.3883

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bases. Bearing strength.

# 34.3887

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mixtures, Antifreezes, Reinforced concretes, Mor-

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Soil freezing, Frost penetration, Ice formation, Ground ice, Soil water migration, Phase transforma-

### 34-3893

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# 34-3894

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Kraus, E., U.S. Army Cold Regions Research and Engineering Laboratory, Feb. 1980, TL 721, 59p., ADA-084 227, 38 refs. Translated from the Third Hydrological Conference of the Baltic States, Warsaw, May,

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In the first (descriptive) section, some of the greatest and most sign want ice pressure ridges are discussed in order to derive  $f_{\rm e} v$  , them the most important general conditions of formation. The second section brings up applications to general geological questions, particularly for tectonics. In the third section the ice pressure ridges are considered as a natural experiment with respect to the tectonic processes in the earth's crust.

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Sea ice, Meltwater, Ice melting, Distribution, Ground water, Ice cover thickness, Oxygen isotopes, Canada.

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Slipchenko, W., et al, [Ottawa, Department of Information, 1978], 426p. Elkin, L.

Urban planning, Economic development, Cold weather construction, Permafrost distribution, Research projects, Pipelines, Roads, Maps, Photography.

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34-3898

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scanning radar station.
Zubakin, G.K., et al, U.S. Army Cold Regions Research and Engineering Laboratory, June 1980, TL 741, 7p., ADB-048 905L, 2 refs. For Russian original sec 34-358.

Zuev, A.N., Larin, B.V., Matorov, O.N.

Ice surveys, Ice reporting, Ice conditions, Side looking radar, Drift, Ice edge, Airborne radar, Ice naviga-

The "Toros" device makes possible the mapping of the ice sheet The "Toros" device makes possible the mapping of the ice sheet of extensive areas of the sea at any time of year, regardless of meteorological or lighting conditions. The enumerated data, provided by the "Toros" peripheral scanning radar station, indicate the multitudinous possibilities of applying this data in the solution of problems of various types. With the help of this system, an experiment was conducted in the southeastern part of the Barents Sea in Apr. 1974, which was directed towards the solution of the problem of short-term forceasting of the location of the ice in a given area.

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Economic development, Construction, Transportation, Airplanes.

14.1902

Chemical composition of snow and ice of the highest Pamir glaciers. O khimicheskom sostave snega i l'da vysochaishikh lednikov Pamiraj. Diurgerov, M.B., et al, Moscow. Universitet. Vest-

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Glacier ice, Snow cover distribution, Ice composition, Snow composition, Admixtures, USSR-Pamirs.

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Slope processes, Rock glaciers, Ice sheets, Ice composition, Dating, Classifications, USSR—Caucasus.

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Russian. 6 refs.
Medvedev, A.V., Melent'ev, V.S., Chizhov, A.B.
Maps, Geocryology, Engineering geology, Mapping, Computer applications.

14.1005

Determining passability of walking excavators in inhomogeneous grounds, allowing for frozen layers.
[Metod opredeleniia prokhodimosti shagaiushchego ekskavatora po neodnorodnomu massivu s uchetom

merzlogo sloia, Zagorulko, L.P., Moscow. Institut gornogo dela Nauchnye soobshcheniia, 1978, Vol.164, p.118-124. In Russian. 2 refs.

Earthwork, Frozen fines, Clay soils, Thixotropy.

Grouping coal deposits in permafrost areas according to geologic and mining development conditions. (Gruppirovanie ugol'nykh mestorozhdenit ralonov mnogoletnet merzloty po gorno-geologicheskim us-loviiam ikh razrabotkij, Gazizov, M.S., et al, Moscow. Institut gornogo dela. Nauchnye soobshcheniis, 1979, Vol.173, p.45-50, In

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Mining, Coal, Permafrost distribution, Permafrost thickness, Permafrost structure, Lithology, Frozen

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loviiakh innogoletnel merzlotyj, El'chaninov, E.A., Moscow. Institut gornogo dela. Nauchnye soobsheheniia, 1979, Vol.173, p.54-62, In Russian. 8 refs.

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nodorozhnogo transporta. Trudy, 1978, Vol.596, p.53-64, In Russian. 2 refs.
Railroad cars, Frozen cargo, Heating, Unloading.

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Gatov, V.M.
Inflatable structures, Thermal properties, Permafrost

beneath structures, Construction materials.

Determining additional heat losses of buildings through light appertures in the Baykal Amur railroad area. (Opredelenie dopolnitel'nykh teplopoter' cherez

svetoproemy zdanit na BAMe3, Chererosov, K.M., et al, Moscow henerov zheleznodorozhnogo transporta Trudy, 1978, Vol.600, p.105-110, ln Russian. 3 refs. Efimova, M.N., Chekanovskaja, E.IA. Buildings, Windows, Heat loss, Baykal Amur rail-

34-3914

Experimental studies and determination of equivalent ambient air temperature for technical design of windows. (Eksperimental'nye issledovaniia i opredelenie ekvivalentnot temperatury naruzhnogo vozdukha dlia teplotekhnicheskogo rasaheta okonnogo zapolnemiaj. Grigor'ev, P.IA., et al, Moscow. Institut inzhenerov zheleznodorozhnogo :ransporta. 7. Vol.600, p.111-115, ln Russian. 3 refs. Trudy.

Dmitrusev, V1 Buildings, Windows, Heat transfer, Heat loss, Wind factors, Air temperature, Design.

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Residential buildings, Walls, Heat loss, Baykal Amur railroad.

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34-3917

Temperature regime of snow covering attic roofs. [Temperaturnyl rezhim snezhnogo pokrova na cher-

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Paniutin, A.A., et al, Moscow. Institut inzhenerov zheleznodorozhnogo transporta. Trudy, 1978, Vol.600, p.137-144, ln Russian.
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Roofs, Snow cover distribution, Snow temperature,

Buildings.

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Heat transfer.

14.1010 Selecting translucent enclosures of transportassociated buildings for severe climatic conditions. (K voprosu o vybore svetoprozrachnykh ograzhdeni) dlia transportnykh zdani) v ratonakh s surovym klimatomj. Godin, A.M., Moscow. Institut inzhenerov zheleznodorozhnogo transporta. Trudy, 1978, Vol.600, p.159-162, in Russian. 4 refs. Industrial buildings, Windows, Heat loss.

Possibility of using sodium nitrite antifreeze in reinforced concretes of buildings and structures on railroads. [Vozmozhnost' primeneniia betonov s protivomoroznot dobavkol nitrita natriia v zhelezobetonnykh konstruktsijakh zdanit i sooruzhenit na zhe-

tonnykh konstruktsijakh zdanii i sooruzhenii na zhe-leznykh dorogakhj. Kostiaev, P.S., et al, Moscow. Institut inzhenerov zheleznodorozhogo transporta Trudy, 1978, Vol.000, p.179-184, In Russian. Afanas'ev, S.G., Kurushin, A.D., Kharitonov, IU.N. Concrete structures, Reinforced concretes, Concrete admixtures, Antiference, Pallpoods

admixtures. Antifreezes. Railroads.

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34.1022

Heterogeneous nucleation of ice on surfaces of liquids. Rosinski, J., Journal of physical chemistry, July 10, 1980, 84(14), p.1829-1832, 10 refs.

Heterogeneous nucleation, Ice nuclei, Phase transfor-mations, Liquid solid interfaces, Temperature effects.

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Effects of the Trans. Alaska nineline on caribou movements.

Cameron, R.D., et al, Project progress report, Federal Aid in Wildlife Restoration, Project W-17-10 (2nd half) and W-17-11 (1st half), Job No.3.18R, Vol.4, Juneau, Alaska Department of Fish and Game, Nov. 1979, 36p., 17 refs. Whitten, K.R.

Ecology, Pipelines, Environmental impact, Animals, Distribution, Plants (botany), United States-Alaska.

34.3024

West Antarctic ice sheet fluctuations in the Antarctic Peninsula area.

Sugden, D.E., et al, Nature, July 24, 1980, 286(5771), p. 378-381, 17 refs.

Clapperton, C.M. Ice sheets, Ice structure, Glacial geology, Geomor-

Ice sheets, Ice structure, Glacial geology, Geomorphology, Antarctics—Antarctic Peninsula.

The West Antarctic ice sheet is believed to be inherently unstable because much off it is grounded below sea level. It has been suggested that the uce sheet has withdrawn from its late Wisconsin maximum position, grounded at the edge of the continental shelf, and is now undergoing collapse as a delayed response to the warming and sea-level rise of the Holocene, and that the ice sheet is likely to collapse shortly in response to rising CO2 levels in the atmosphere. The authors present some geomorphological evidence from Alexander Island and the Antarctic Peninsula which does not agree with either hypothesis. Peninsula which does not agree with either hypothesis. Rather, following deglaciation from the Wisconsin maximum, there was less ice than at present around 8,000 yr ago. The ice shelf in George VI Sound has built up subsequently. (Auth.)

34.3025

Young Pioneer camp boarding house "Severnyi Artek" of the Bratsk lumber industry complex. (Pioner-lager-pansionat "Severnyl Artek" Bratskogo LPK<sub>1</sub>. Grinev, S., Na stroikaich Rossii, Dec. 1979, No.12, p.28-29.

Forest land, Residential buildings, Foundations, Roads, Permafrost beneath structures, USSR-Bratsk.

34-3926

Drilling-and-mixing method of building foundations of cemented earth piles. (Burosmesitel'nyl metod ustroistva fundamentov iz tsementogruntar

Tokin, A., Na stroikakh Rossii, Jan. 1980, No.1, p.5-6, In Russian.

Residential buildings, Foundations, Trenching, Drilling, Soil cement, Piles.

Local artificial freezing of thawed ground in Yakutsk. Lokal'noe zamorazhivanie ottajavshego grunta v IA-

Maksimov, G., et al. Na stroikakh Rossii, Jan. 1980,

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Large panel buildings, Foundations, Piles, Permafrost beneath structures, Permafrost control, Artificial freezing.

14-1028

Residential buildings on economy-type pile foundations in Murmansk. [Zhilye zdaniia na ekonomich-nykh svatnykh fundamentakh v usloviiakh Murmanskaj,

Kaloshin 1 Na strojkakh Rossii, Jan. 1980. No.1. p.14-15, In Russian.

Residential buildings, Foundations, Gravel, Clays,

Sands.

34.1020

Effective use of helicopter cranes, rEffektivnost primeneniia vertoletov-kranov<sub>3</sub>, Chernitskil, A., Na stroikakh Rossii, Jan. 1980, No.1,

p.30-32, In Russian.

Helicopters, Cranes (hoists), Construction, Transportation.

34-3930

Petrochemical product admixtures for concretes. Dobavki v beton produktov nestekhimicheskogo proizvodstvaj, Cherepanov, IU., et al, Na stroikakh Rossii, Jan. 1980,

No. 1, p.42-43, In Russian.

Concrete admixtures. Petroleum products. Concrete strength, Frost resistance, Low temperature tests.

Erection of multistory brick buildings in Noril'sk. [Vozvedenie kirpichnykh zdanil povyshennol etazhnosti v Noril'skej,

No.3, p.32-35, In Russian.

Pikhovkin, V., Kalinin, M.

Residential buildings, Bricks, Cold weather construction, Heating, Mortars, Cement admixtures, Frost re-

34-3932

Improving the procedure for installation of antiseepage curtains by the "wall-in-the-ground" method. Burov, IU.E., et al, Soil mechanics and foundation engineering, Nov-Dec. 1978 (Pub. May 80), 16(6), p. 304-309, Translated from Osnovaniia, fundamenty i

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Densification of soils prone to slump-type settlement by the gas-detonation method.

Martem'ianov, A.I., et al, Soil mechanics and foundation engineering, Nov.-Dec. 1978 (Pub. May 80), 16(6), p.316-320, Translated from Osnovaniia, fundamenty i mekhanika gruntov. 3 refs.

Piskarev, V.V.
Foundations, Fines, Settlement (structural), Soil compaction, Detonation waves.

14.3934

Results of twenty-year monitoring of silication stabilization of Odessa theater foundations.

Arshakuni, D.E., et al, Soil mechanics and foundation engineering. Nov.-Dec. 1978 (Pub. May 80), 16(6), p. 325-327, Translated from Osnovaniia, fundamenty i mekhanika gruntov. Golubkov, V.N.

Buildings, Foundations, Loess, Settlement (structural), Soil stabilization, Cements.

34.1035

Determination of settlement due to thawing out of permafrost soil.
Ponomarev, V.D., et al. Soil mechanics and foundation

engineering. Nov.-Dec. 1978 (Pub. May 80), 16(6), p.328-331, Translated from Osnovaniia, fundamenty i mekhanika gruntov. 7 refs.
Sorokin, V.A., Fedoseev, IU.G.
Foundations, Permafrost beneath structures, Ground

hawing, Settlement (structural), Permafrost control, Build ngs.

Engineering-economic determination of optimum depth of preconstruction thawing of permafrost soils under buildings.
Khrustalev, L.N., Soil mechanics and foundation engi-

neering, Nov.-Dec. 1978 (Pub. May 80), 16(6), p.332-337. Translated from Osnovanija, fundamenty i mekhanika gruntov. 7 refs.

Foundations, Permafrost beneath structures, Ground thawing, Thaw depth, Buildings.

Tunneling through quicksand, Shehity prokhodiat plyvunyj.

Zaidullin, N., et al, Metrostroi, 1980, No.1, p.8, In Russian.

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Artificial freezing, Tunneling (excavation), Construction equipment, Quicksand.

34-3938

Erection of building structures at the northern Mining and Concentration Concern No.2. [Montazh stroitel'nykh konstruktsil na severnom GOK-2].

Golubenko, V.V., et al, Montazhnye i spetsial'nye raboty v stroitel'stve, Mar. 1980, No.3, p.10-12, in

Kozhushko, V.V., Pavlyk, P.V.

Mining, Concrete structures, Reinforced concretes, Industrial buildings, Steel structures, Roads, Rail-roads, Bridges, Permafrost beneath structures.

34-3939

Road building performed on a self-supporting basis.

(Dorogi khoziatstvennym sposobom), Shabalin, V.P., et al, *Lesnaia promyshlennost*, 1979, No.11, p.14-15, In Russian. Erin, V.G., Kuznetsov, E.A.

Forest land, Swamps, Ice roads, Snow roads.

34-3940

Road construction all year round, (Stroit' dorogi kruglyt god<sub>3</sub>, Siniaev, N.V., *Lesnaia promyshlennost*, 1979, No.11, p.15-16, In Russian.

Forest land, Swamps, Roads, Cold weather construction. Ice roads. Construction equipment.

34-3941

Optimizing parameters of multibucket excavators of foundation pits. (Issledovaniia po optimizatsii parametrov mnogokovshovykh kotlovanokopatelelj. Solomonov, S.A., Moscow. Institut inzhenerov zheleznodorozhnogo transporta. Trudy, 1978, Vol.598,

p. 13-21, In Russian.
Foundations, Excavation, Equipment, Frozen ground.

34.3042

Computing the speed of foundation pit excavation with chain-bucket excavators. [Raschet na ETsVM skorosti i vremeni prokhodki kotlovanov tsepnymi

kotlovanokopateliamij, Bass, B.A., Moscow. Institut inzhenerov zheleznodorozhnogo transporta. Trudy, 1978, Vol.598, p.22-31, In Russian. 3 refs.
Foundations, Excavation, Equipment, Frozen ground.

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Water movement in an overland-flow land treatment system Water movement in an overland-flow land treatment system was studied experimentally and theoretically. A small-scale physical model was used to obtain experimental data. The theoretical analysis was based upon the shallow water equation for overland flow and the Darcy-Richards law for soil water flow. It was found that the water movement in the system was primarily, controlled by the application rate, the friction slope, the slope angle, the hydraulic characteristics of soils, and the evapotranspiration. An approximate analytical solution to steady flow in the system was obtained. It was found that the rate of soil water flow was mainly determined by the saturated conductivity of soils and in less extent by the friction slope and the slope angle in the steady condition. A finite difference solution to non-steady flow was found satisfactory in simulating the experimental data.

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Crystal size and climatic record down to the last ice

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Ice crystal size, Ice cores, Climatic changes

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Crystal size measurements were performed along a 905-m-long ice core obtained from east central Antarctica (Dome C). The expected increase of crystal size with age is observed in the ice deposited during the Holocene: further down major changes appear to be associated with climatic events and, in particular, with the transition from the last glacial age to present conditions. Physical mechanisms which may explain these data are discussed. A tentative estimation of the age of the deep ice is made from the ice crystal growth law. (Auth.)

34.3087

Glaciological studies by Landsat imagery of perimeter

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Sea ice, Ice shelves, Icebergs, Spacecraft, Photointer-

pretation.

The investigation has utilized Landsat imagery to analyze changes in the Dronning Maud Land coastline between 10w and 20E and to obtain statistical data on ocean dynamics, and sea ice and iceberg distribution in this region of the Antarctic.

The imagery for the investigation was provided by National Aeronautics and Space Administration (NASA), USA. Altogether 67 images were received, mostly from the 1975/76 austral summer. Band MSS 7 has been found most useful for the ice studies. The other bands were also used to attempt difthe ice studies. The other bands were also used to attempt dif-ferentiation between ice floes and icebergs, but with inconclu-sive results. The best method to distinguish between the ice shelf edge and the fast ice, and to bring out ice rises on the ice shelf, has been to copy the MSS 7 negatives at 5-10 times < normal > exposure (Auth)

Snow accumulation and snow stratigraphy on Riiser-Larsenisen, Dronning Maud Land, Antarctica.

Repp, K., Oslo. Norsk polarinstitutt. Skrifter, 1978, No. 169, p.81-92, 7 refs.

Show accumulation, Snow physics, Snow stratigraphy, Antarctica—Queen Maud Land.

The western part of Riser-Larsenisen is fairly flat, with small

undulations difficult to detect. Outstanding features are an ice dome of 200 metres elevation and a long, narrow depression parallel to the edge of the ice shelf. Snow stratigraphy and density were measured in nine pits, the deepest 4.5 metres. Mean accumulation of all pits for the year 1976 was 588 mm in water equivalent, which is higher than earlier investigations. Five snow cores to depths of 11 to 15 metres were collected for laboratory analyses. (Auth.) undulations difficult to detect. Outstanding features are an ice

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Small-scale testing of soils for frost action.
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Frost action, Frost heave, Ice needles, Soil water mi-

gration, Soil tests.

A method is described for convenient study of frost action, including soil heaving and needle ice formation. The apparatus is simple and small and the procedure requires only 25 cu cm soil specimens. The method could be useful for screening either large numbers or limited quantities of soils or soil additives for frost susceptibility. The method described was used to perform a limited number of tests with several soils. The tests obtained action in the form of soil heave, ice heave, or ice needles, yielding maximum heights up to three to six times the initial 40-mm soil depth. Maximum growth rates were up to 1 to 3 mm/th for soil heaves and 3 to 7 or more mm/h for ice heaves and ice needles. Initial trials showed that thickner additives and possibly other treatments can restrict frost action. A method is described for convenient study of frost action frost action

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Pipe laying, Offshore structures, Ice conditions, Seaice, Oceanographic surveys, Safety, Engineering, Logistics.

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nology. Completion report, Jan. 1980, No.76-2, 30p. PB80-166 465.

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Aircraft icing, Ice forecasting, Cloud physics, Visibility, Temperature effects, Computer programs.

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Polymers, Snow removal, Equipment.

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Chang, A.T.C., Foster, J.L.
Snow cover distribution, Remote sensing, Radiometry, Microwaves, Snow accumulation, Snow line, Spaceborne photography, Scanning electron micros-

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Glacier ice. Mathematical models

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Mountain glaciers, Glacier surfaces, Snow accumulation, Snow surveys, Snow depth, Snow water equivalent.

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Forestry, Forest land, Taiga, Cryogenic soils, Plant ecology, Biomass, Ecosystems, Roads, Houses, Permafrost beneath structures, Transportation, Baykal Amur railroad.

34.4012

Modeling productivity and frost hardiness of plants. [Modelirovanie produktivnosti i kholodoustotchivosti

rastenilj, Kurets, V.K., et al. Leningrad, Nauka, 1979, 15p., In Russian with English table of contents englosed. Refs. p.145-154. Popov, E.G.

Plants (botany), Frost resistance, Models, Air temperature, Soil temperature, Plant ecology, Micro-climatology, Plant physiology, Photosynthesis, Computerized simulation.

34-4013

Hydrophobic-plasticizing admixtures to concretes used in road construction. Gidrofobno-plastifitsirui-ushchie dobavki k dorozhnym betonam, Teshabaev, R.D., Tashkent, Fan, 1980, 63p., In Rus-

sian with English table of contents enclosed. Pavements, Concrete admixtures, Frost resistance, Concrete strength, Roads, Concretes.

34-4014

Formation and development of swamp systems. (Formirovanie i razvitie bolotnykh sistem<sub>1</sub>, Kiriushkin, V.N., Leningrad, Nauka, 1980, 88p., In

Russian with English table of contents enclosed. refs.

Taiga, Paludification, Glacial deposits, Swamps, Soil formation, Vegetation, Peat, Landscape types, Permafrost distribution, Mapping, Charts.

Chernoy, U.I., Moscow, Mysl', 1980, 236p., In Russian with English table of contents enclosed. Refs. p.233-235.

Tundra, Cryogenic soils, Plant ecology, Ecosystems,

Plants (botany), Animals, Air temperature, Soil temperature, Landscape types, Arctic landscapes.

14-4016

Thawing effect on the strength of roadbeds, (Vlijanic ottepeli na prochnosť zemlianogo polotna avtomobil'-

nykh dorog). Poritskil, R.Z., Stroitel naia teplofizika, teplogazos-nabzhenie i ventiliatsiia, 1978, Vol.4, p.14-24, In Russian. 4 refs. DLC TA418 52.S78

Roadbeds, Bearing strength, Freeze thaw cycles, Ground thawing, Roads, Design.

34-4017

Design of lightweight multilayered panels with polystyrene foam thermal insulation. [Teplotekhnicheskii raschet oblegehennykh mnogoslotnykh panelet s uteplitelem iz penopolistirolaj,

Zhuk, I.P., et al. Stroitel naia teplofizika, teplogazos-nabzhenie i ventiliatsiia. 1978, Vol.4, p.65-72., In Rus-

sian. 4 refs. Ivanova, L.A., Minchenkova, L.P DLC TA418.52.S78

Heat loss, Prefabrication, Reinforced concretes, Panels, Thermal insulation, Design, Buildings.

34.4018

Investigations on snow parameters by radiometry in

the 3- to 60-mm wavelength region.

Hofer, R., et al, Journal of geophysical research, Jan. 20, 1980, 85(C1), p.453-460, 30 refs. Mätzler, C.

Remote sensing, Snow water content, Radiometry, Temperature variations.

34-4019

A.R.A. Almirante Irizar. Holland shipbuilding, Apr. 1979, 28(2), p.76.
Ships, Icebreakers.

Ships, (ceoreakers.

An icebreaker ordered by the Argentinian government and built at the Wärtsilä facility in Helsinki was delivered in early 1979. The ship is described in terms of personnel (passengers and crew), stability in heavy weather, power plant, equipment, waste disposal, and ive testing.

34-4020

MacKinnon, P.K., comp., Glaciological data, May 1980, GD-8, 139p., Refs. passim. For selected articles see 32-2118 and 34-4021 through 34-4031, or F-19693, and F-23554 through F-23563.

Ice cores, Data processing, Bibliographies, Antarc-

Included in this issue are: a brief report of a workshop on the status and future of ice core data and research, held in Boulder in Sep. 1979; an inventory of ice core studies and research facilities in North America and throughout the world with a substantial number of ice core tables and core site maps, includ-ing 182 sites throughout Antarctica, information storage and exchange; several contributed papers dealing with various as-pects of ice cores; and a classified ice core bibliography contain-ing 345 citations. Many of these separate topics involve Antarctica.

Status and future of ice core data.

Barry, R.G., et al, Glaciological data, May 1980, GD-8, p.1-4, 4 refs.

MacKinnon, P.K.

Ice cores, Research projects, Glaciology, Data processing.

essing.

The authors review the current state of the management of ice core data as data collecting has expanded with the establishment of large scale national and international programs. With the expansion have come problems such as data exchanging, advisability of having a central data base, data formats and standards, and defining archivable data. Future possibilities for data centers are explored.

34-4022

Workshop on the Status and Future of Ice Core Research and Ice Core Data (Boulder, Colorado, 24-26 September 1979). Glaciological data, May 1980, 8, p.5-14.

Meetings, Research projects, Data processing, Ice cores, Climate, Ice coring drills, Age determination.

Presented here is an outline of reviews and recommendations of working groups on core and core data management, application of ice core research to climate studies, ice core dating, and drill technology and the interface with ice core research needs. Also included is the workshop program schedule and a listing of participants

Ice core inventory.

MacKinnon, P.K., Glaciological data, May 1980, GD-8, p 15-57, 7 refs.

Ice coring drills, Core samplers, Ice temperature.

This paper reports the status of past and present ice core investi-gations, documentation of core sites, the groups carrently in-solved in ice core drilling, the principal centers conducting ongoing ice core analyses, and the availability of cores and data for Arctic Canada, Greenland, temperate ice zones and Antarctica.

Ice core information storage and exchange system. Thompson, J.M., et al, *Glaciological data*, May 1980, GD-8, p.59-63.

MacKinnon, P.K.

Ice cores, Data processing.

Ice cores, Data processing.

This paper presents an overview of a data and information storage and exchange system (DISES) developed by the World Data Center A for Glaciology for the management of ice core and related data. The design of this system consists of specifications for the data file structure, the computer programs necessary to obtain the proposed operational capabilities, and procedures to use the programs and data files within the host computer facility. Elements of this design have been shaped by the nature of ice core data sets and by suggestions received from the glaciological community. (Auth)

34-4025

Central ice core storage facility-ice core sampling procedures. U.S. National Science Foundation. Division of Polar Programs, *Glaciological data*, May 1980, GD-8, p.66-

Ice cores. Cold storage.

ace cores, Cold Storage.

Procedures and criteria are outlined by which researchers may have access to the ice cores stored by NSF's Ice Core Storage Facility. The curator of the facility, following discussions of a project with a researcher makes recommendations to the Chief Scientist. NSF, who approves or disapproves the use of core samples. If approval is given, the curator distributes the samples.

34-4026

Specimen and core-sample distribution policy. U.S. National Science Foundation. Division of Polar Programs, Glaciological data, May 1980, GD-8, p.69-

Ice cores. Drill core analysis.

Given here are general policies and procedures established by NSF as to how ice and sediment cores under its authority will be distributed among qualified researchers. Contact addresses and telephone numbers are listed for storage facilities and the kind of material stored at each of the four locations is noted. Ice and sediment cores are those retrieved from drilling in Antarctica during Eltanin cruises, RISP, and DVDP

34-4027

Ice core sampling.

Radok, U., Glaciological data, May 1980, GD-8, p.71-76, 9 refs.

Ice cores, Ice sampling, Research projects, Antarctica. Greenland.

tica, Greenland.

Before fine details of ice core records can be accepted as significant, it will be mecessary to compare the features of neighboring cores as a function of their separation. Once the local variability of such features has been established, the way is open to sampling the essential features of najor catchments in the Antarctic and Greenland ice sheets. It is suggested that further deep cores are needed on the Byrd flow line, and on flow lines from Dome C towards Casey and Dumont d'Urville, in the regions of relatively fast flow. Together with the existing core data and improved models, these new data will define the thermodynamics and dynamics of two major Antarctic catchments. Concurrent intermediate and shallow sampling programs are needed to complete the material from which their histories could be reconstructed. The concept of a surface sampling task force is outlined. This would collaborate with aerial radar sounding, deep drilling, and computer modeling teams in a coordinated program for completing the task of describing the polar ice sheets as physical systems. (Auth. mod.)

34.4028

Polar Ice Coring Office ice drill status report.

Kuivinen, K.C., et al, *Glaciological data*, May 1980, GD-8, p.77-85, 16 refs. Koci, B.R.

Ice coring drills.

the same of the sa

Ice coring drills.

The report reviews the capabilities and present status of ice drilling equipment developed for use in the Antarctic, Arctic, and other alpine localities. It is limited to a discussion of drilling equipment developed through funding by the NSF-DPP, and currently under the custodianship of the Polar Ice Coring Office. A brief background statement is followed by individual discussions of the seven ice drilling and coring devices currently in the NSF-DPP inventory.

Nomenclature applied to ice cores: a geological view-

Andrews, J.T., Glaciological data, May 1980, GD-8, p 87-89, 8 refs

Ice cores, Terminology.

34-4030

Time-priority studies of deep ice cores. Gow, A.J., Glaciological data, May 1980, GD-8, MP 1308, p.91-102, 18 refs.

Ice cores, Drill core analysis, Antarctica—Byrd Sta-

tion. Both the Greenland and Antarcticines sheets have been successfully core-drilled to bedrock. 1390 m at Camp Century, Greenland in 1966 and 2164 m at Byrd Station, Antarctica in 1968. Core and borehole studies at both sites have revealed a wealth of interesting results, especially at Byrd Station where extensive studies of cores were begun as soon as they were pulled out of the drill hole. Continuing investigations of these Byrd Station drill cores, including recent observations of apparent wide-pread recrystallization in certain sections of a paparent wide-pread recrystallization in certain sections of one core, further confirm the importance of initiating as many studies as possible at the drill site. Any list of the studies that should be conducted on deep ice cores must recognize two kinds of research. I) those studies of a time-priority nature that must be initiated as soon as cores are pulled to the surface and, 2) other essential studies in which relaxation of the ice is not a factor. These later studies can generally be deferred until cores are transported to more permanent storage facilities outside Antarctica (Auth mod.).

Ice core work at the Laboratoire de Glaciologie, CNRS, Grenoble.

Raynaud, D., Glaviological data, May 1980, GD-8, p.103-107, 14 refs.

Ice cores, Drill core analysis, Laboratories.

The Laboratoire de Glaciologie is dedicated to environmental action. The work done by the Grenoble laboratory includes the recovery and analysis of ice cores in order to obtain a record of past environmental conditions that prevailed near the surface of ice masses. For this purpose the best conditions have been found on polar ice sheets where large areas are unaffected by surface melting and ice thicknesses provide long time series. Much of the field work has been done in Antarctica, where cores were drawn for climate and atmospheric composition studies. (Auth mod.)

34-4032

Origin of the oxygen-isotope composition in the snow

cover in East Antarctica.
Vilenskii, V.D., et al. Geochemistry international, 1978, 15(2), p.180-185, For Russian original see 10F-

21486 or 33-3204. 10 refs. Tesis, R.V., Kiselevskii, M.A., Kochetkova, S.N Snow composition, Isotope analysis, Oxygen isotopes, Antarctica—East Antarctica.

topes, Antarctica—East Antarctica.

Oxygen-isotope compositions have been determined for snow-cover specimens from five areas between the Mirnyy and Pionerskaya stations in East Antarctica—The height increases away from the coast, while the mean air temperature falls, and his is accompanied by a fall in delta-18-O. In the coastal zone (less than 50 km from Minnyy, height less than 0.86 km, air in the oxygen-isotope composition. Further from the coast, between 50 and 353 km, the variation in delta-18-O with temperature amounts to 0.6% per degree. These variations in delta-18-O in the annual layers include effects crising from the details of the formation at the sampling points, so the data cannot be used directly to trace the temperature variations from year to year. The spatial nonuniformity in the snow deposition also results in considerable nonuniformity in the isotope composition for specimens taken within a restricted area. (Auth.)

Geocryological investigations in West Yakutia. Geokriologicheskie issledovaniia v Zapadnol lAku-

Mel'nikov, P.I., ed, Novosibirsk, Nauka, 1980, 113p. In Russian. For individual papers see 34-4034 through 34-4045. Refs. passim.

Foundations, Permafrost bases, Thermopiles, Power

line supports, Hydraulic structures, Earth dams, Per-mafrost hydrology, Taliks, Buildings, Subpermafrost

34-4034
Evaluating the depth of seasonal thawing for operating electric power transmission lines. (Nekotorye otsenki glubiny sezonnogo protaivaniia v sviazi s eksplustatistel LEF).
Spesivtsev. V.I., et al. Geokriologicheskie issledovaniia v Zapadnol lAkutii (Geocryological investigational processional p

Snegirev, A.M. Power lines, Roads, Permafrost beneath structures, Active layer, Thaw depth, Vegetation factors, Human factors, Thermokarst, Gullies, Soil erosion, Construction equipment.

34-4035

Foundations of power transmission lines and substations. (Fundamenty lini) elektroperedachi i podstant-

sitj. Makarov, V.I., et al, Geokriologicheskie issledovanna Makaros, V.I., et al. Geokrologicheskie issledovanna v Zapadnot IAkutii (Geocryological investigations in West Yakutia) edited by P.I. Mcl'nikov, Novosibirsk, Nauka, 1980, p 10-22, In Russian. 2 refs. Usviat, IU.IA., Kornilov, B.E. Foundations, Power line supports, Permafrost beneath structures, Stations, Deformation, Permafrost hydrology, Taliks.

34-4036

Experience in using the S.Kh.IA thermopile in

experience in using the S.Rn.1A thermopile in Mirnyy. (Opyt primeneniia sval SKhlA pri stroitel'stve v g. Mirnom). Molochnikov, A.D., Geokriologichleskie issledovaniia v Zapadnot IAkutii (Geocryological investigations in West Yakutia) edited by P.I. Mcl'nikov, Novosibirsk, Nauka, 1980, p.23-26. In Russian Woundations, Thermopiles, Permafrost beneath structures. Permafrost control Ruildings.

tures, Permafrost control, Buildings.

34-4037

Fluid-bearing thermopiles in foundation construction in the North. [K voprosu o primenenii zhidkostnykh termosifonov v severnom fundamentostroenii],

termositonov v severnom fundamentostroenii, Makarov, V.I., et al. Geokriologicheskie issledovaniia v Zapadnot IAkutii (Geocryologica' investigations in West Yakutia) edited by P.I. Mel'nikov, Novosibirsk, Nauka, 1980, p.26-40, In Russian. 7 refs. Plotnikov, A.A. Foundations, Thermopiles, Permafrost hydrology, Taliks, Permafrost control.

34-4038

Engineering preparation of sites for construction on permafrost. [Inzhenernaia podgotovka territorii pri stroitel'stye na vechnomerzlykh gruntakh<sub>3</sub>, Ivanov, V.S., Geokriologicheskie issledovaniia v Zapadnot IAkutii (Geocryological investigations in West Yakuta) edited by P.I. Mel'nikov, Novosibirsk, Nauka, 1980, p.40-42, In Russian. 31 refs. Construction, Site surveys, Frozen rock temperature, Active layer, Permafrost structure, Seasonal freeze thaw, Thaw depth.

34-4039 Calculating temperature fields in permafrost thawing Calculating temperature lends in permatrost thawing at different temperatures (applied to mining problems). (Raschet temperaturnogo polia v vechnomerziom grunte, ottaivaiushchem v spektre temperaturi, Gur'ianov, I.E., Geokriologicheskie issledovaniia v Zapadnol IAkutii (Geocryological investigations in West Yakutia) edited by P.I. Mel'nikov, Novosibirsk, Nauka, 1980, p.42-62, In Russian. 31 refs.

Mine shafts, Permafrost thermal properties, Ground thawing Permafrost thermal properties, Hoat

thawing, Perman ost structure, Frozen fines, Heat transfer. Analysis (mathematics).

Ottimal configuration of a confining bed under the pressure of subpermafrost ground water. [Optimal'naia konfiguratsija vechnomerzlogo vodoupora vosnaia konfiguratsiia vechnomerzlogo vodoupora vos-prinimaiushchego davlenie podmerzlotnykh vodj. Gur'ianov, I.E., Geokriologicheskie issledovaniia v Zapadnof IAkutii (Geocryological investigations in West Yakutia) edited by P.I. Mel'nikov, Novosibirsk, Nauka, 1980, p.62-70, In Russian. 9 refs. Mining, Subpermafrost ground water, Water pres-sure, Analysis (mathematics).

34-4041

Engineering and geological peculiarities of the Vilyuy River valley at the inflow of the Malaya Botuobiya tributary. (Inzhenerno-geologicheskaia osobennost tributary. [Inzhenerno-geologicheskata osobennost' doliny Viliuia pri vpadenii v nee r. Malaia Botuobiia, Beliakov, L.P., et al. Geokriologicheskie issledovaniia v Zapadnot IAkutii (Geocryological investigations in West Yakutia) edited by P.I. Mel'nikov, Novosibirsk, Nauka, 1980, p.71-80, In Russian. 3 refs. Moskvina, M.M., Spesivtsev, V.I. Permafrost beneath rivers, Shore erosion, Permafrost verbasing Permafrost beneath Permaf

weathering, Permafrost structure, Ice veins, Perma-frost hydrology, Solifluction, Landslides.

Development of ground ice in hydraulic earth struc tures. (Razvitic vnutrigruatovykh ľdov v nasypnykh

Olovin, B.A., Geokriologicheskie issledovaniia v Zapadnol lAkutii (Geocryological investigations in West Yakutia) edited by P.I. Mel'nikov, Novosibirsk, Nauka, 1980, p.80-87, In Russian. 4 refs. Hydraulic structures, Earth dams, Ground ice, Foundations, Artificial freezing.

34-4043

Climatic peculiarities of West Yakutia. [Klimatiches-

Climatic peculiarities of west Yakutia, (Klimaticnes-kaia osobernnost Zapadnoi IAkutii), Spesiviseva, N.A., Geokriologicheskie issledovanna v Zapadnoi IAkutii (Geocry logical investigations in West Yakuta) edited by P.I. McPinkov, Novosibirsk, Nauka, 1980, p.87-95, In Russian. 4 refs.

Climate, Topographic effects, Atmospheric circulation, Synoptic meteorology, USSR—Yakutia.

34.4044

Determining position and form of zero isotherms in ground thawing under pressure seepage beneath regulators. (Opredelenie polozhenia i formy nulevot izotermy v ottaivaiushchikh osnovannakh reguliatorov

Vasil'eva, I.A., et al. Geokriologicheskie issledovania v Zapadnot IAkutii (Geocryological investigations in West Yakutia) edited by P.I. Mel'nikov, Novosibirsk, Nauka, 1980. p 95-102, In Russian 55 refs.

Hydraulic structures, Foundations, Permufrost beneath structures, Heat transfer, Soil water migra-tion, Ground thawing, Thawing rate, Modeis.

34-4045

Thermal regime of residential building foundations when there are unheated rooms beneath the building. Temperaturnyl rezhim gruntov osnovanija zhilogo (Temperaturny) rezhim gruntov osnovania zhilogo doma s kholodnymi pomeshchenilami pod zdaniemj. Piotnikov, A.A., Geokriologicheskie issledovania v Zapadnot IAkutii (Geocryological investigations in West Yakutia) edited by P.I. Mel'nikov, Novosibirsk, Nauka 1980. p. 102-107. In Russian 5 refs. Residential buildings, Foundations, Permafrost beneath structures, Frozen rock temperature.

34-4046

Structural thermodynamics. A review. [St:oitel'naia teplofizika. Obzornaia informatsiia; L'vov, G.N., ed, Moscow, 1969, 100p., In Russian. For selected papers see 34-4047 through 34-4051. DLC TH2231.S84

Walls, Large panel buildings, Lightweight concretes, Panels, Thermal insulation, Joints (junctions), Seal-ing, Cold weather tests, Residential buildings.

34-4047

Experimental study of air and water permeability of external wall panel joints. [Eksperimental nye issledoyanija vozdukho- i vodopronitsaemosti stykov

naruzhnykh sten<sub>1</sub>, Roslaia, G.I., Stroitel'naia teplofizika. Obzornaia informatsiia (Structural therodynamics. A review) edited by G.N. L'vov, Moscow, 1969, p.3-8, In Russian DLC TH2231.884

Large panel buildings, Panels, Joints (junctions), Sealing, Residential buildings.

34-4048

Field inspection of thermal properties of 1605 AM/9 series houses with multilayer external walls. [Naturnye teplotekhnicheskie obsledovanija domov s mno-goslolnymi naruzhnymi stenami (serija 1605 AM/9), Bratnina, E.IU., Stroitel'naia teplofizika. Obzornaja informatsija (Structural therodynamics. A review) edited by G.N. L'vov, Moscow, 1969, p.9-15, ln Rus-DLC TH2231.S84

Large panel buildings, Reinforced concretes, Panels, Joints (junctions), Sealing, Thermal insulation, Cold weather tests, Heat loss.

Field inspection and testing of thermal properties of enclosures of a 12-story residential building. (Natur-nye teplotekhnicheskie ispytanija i obsledovanija ograzhdajushchikh konstruktsii 12-etazhnogo chilogo

Bukharova, N.V., Stronel'naia teplofizika Obzorview) edited by G.N. L'vov, Moscow, 1969, p 16-28 In Russian.

DLC TH2231.S84

Concrete structures, Large panel buildings, Light-weight concretes, Panels, Heat transfer, Walls, Cold weather tests, Residential buildings.

Thermoinsulative properties of lightweight concrete external wall panel joints in buildings of the series 11-57 and 11-60. [Issledovanie teplozashchitnykh svotsty stykov naruzhnykh panelet iz keramzitobetona

dlia domov serii II-57 i II-60<sub>1</sub>. Surkov, V.I., et al. Stroitel'naia teplofizika. Obzornaia informatsiia (Structural therodynamics. maia informatsiia (Structural therodynamics. A review) edited by G.N. L'vov, Moscow, 1969, p.29-35, In Russian In Russian.

Babenko, I.D. DLC TH2231 S84

Large panel buildings, Lightweight concretes, Walls, Panels, Joints (junctions), Sealing, Thermal insula-

Winter testing of thermal properties of plastic mobile houses. Naturnye zimnie teplotekhnicheskie is-pytaniia peredvizhnogo domika iz plastmass<sub>1</sub>.

Avdeev, G.K., Stroitel'naia teplofizika. Obzomaia informatsiia (Structural therodynamics. A review) edited by G.N. L'vov, Moscow, 1969, p.89-92, In Rus-

DLC TH2231.S84

Houses, Construction materials, Plastics, Panels, Thermal insulation, Cold weather tests.

Construction experience gained by the Trust "Ural-strolmekhanizatsiia" (Ob opyte raboty tresta "Ural-

strolmekhanizatsiia" (Ob opyte racory tresta Utal-strolmekhanizatsiia"). Lamakina, V.S., Mekhanizatsiia stroitel'stva, July 1980, No.7, p.2-4, In Russian. Roads, Railroads, Permafrost beneath structures, Earthwork, Cost analysis, Blasting, Frozen ground.

Effectiveness of excavating machines used on the construction of the Baykal Amur railroad and the Surgut-Urengoy line. [Effekti rost ispol zovanija zemrengolj.

Crengoti.
Bardyshev, O.A., Mekhanizatsiia stroitel'stva, July 1980, No.7, p.6-8. In Russian.
Excavation, Earthwork, Bavkal Amur railroad, Equipment, Frozen gorund.

34-4054

MGI-58 equipment for layer-by-layer excavation of ground. [Mashina MGI-58 dlia postolnogo frezerova-

nia gruntov<sub>1</sub>.
Zakharov, V.A., et al. Mekhanizatsiia stroitel'stva. nna gruntos).
Zakharov, V.A., et al, Mekhanizatsiia stroitel'stva,
July 1980, No.7, p.17-18, In Russian.
Kopchikov, V.F., Tyrtsyshnyl, V.I., Vasil'ev, E.F.
Earthwork, Excavation, Equipment, Frozen ground.

Effective working tool of the ETTs-165 excavator for frozen ground. ¡Effektivnyl rabochil organ ek-skavatora ETTs-165 dlia razrabotki merzlykh grun-

Sokolov I K et al. Mekhanizatsiia stroitel'stva July

1980, No.7, p.18-19, In Russian.
Danilov, A.K., Krause, V.Kh., Suurpere, A.O.I.
Earthwork, Excavation, Equipment, Frozen ground.

34-4056

Retooling bulldozers for ripping and uprooting. Pereoborudovanie bul'dozera dlia rykhleniia i kor-

chevaniia, Prytkov, I.V., Mekhanizatsiia stroitel'stva, July 1980, No.7, p.23-24, In Russian.

Earthwork, Excavation, Equipment, Frozen ground.

Joint analysis of satellite and serial photographs and ground-based measurements for estimating the spatial distribution and temporal variations of snow cover.

Kupriianov, V.V., Soviet hydrology: selected papers, 1978, 17(2), p.81-88, 2 refs. Translation from Gosudarstvennyl gidrologicheskil institut, Trudy, 1978, No.243, p.61-77.

Snow cover distribution, Remote sensing, Aerial surveys, Spaceborne photography, Snow melting, Runoff, Snow line, Floods.

34.4058

Use of radar to measure ice thickness in rivers, lakes, and reservoirs.

Chizhov, A.N., et al, Soviet hydrology: selected papers, 1978, 17(2), p.116-127. Glushnev, V.G., Slutsker, B.D., Borodulin, V.V.

Ice cover thickness, Icebound lakes, Icebound rivers, Reservoirs, Airborne radar, Radar echoes, Sounding,

34-4059

Estimation of the possible changes in the ice and thermal regimes of the northern Dying River under the effect of partial runoff withdrawal.

Donchenke, R.V., et al, Soviet hydrology: selected papers, 1978, 17(3), p.186-191, 7 refs. Translated from Gosudarstvennyt gidrologicheskit institut. Trudy, No.248, p.3-14 Kiselev A A

River ice, Ice conditions, Thermal regime, Runoff, Ice iams, USSR-Dvina River.

34 4000

Mathematical model of water infiltration into frozen

soils.

Motovilov, IU.G. oviet hydrology: selected papers, 1978, 17(3), p.207-211, 9 refs. For Russian original sec 32-4544

Soil freezing. Frozen ground. Soil water migration. Frost penetration, Seepage, Surface water, Permea-bility, Ground ice, Ice formation, Mathematical models.

14.4061

Wint r floods in Leningrad and their study by empiri-

wint, rations in Leningrad and their study by empirical and hydrodynamic methods.

Drabkin, V.V., et al. Soviet hydrology: selected papers, 1978, 17(3), p.246-249, 8 refs. Translated from Leningrad, Universitet, Vestnik, 1978, No.12, p.128-133

Floods, Ice conditions, Water level, Hydrodynamics, Statistical analysis, USSR--Leningrad.

35-4062

Winter flying puckage: 1. Ultimate winter enjoyment.

Mackie, D ev al. Canadian aviation. Dec. 1978. 51(12), p.22-25. Beluse, M.

Airplanes, Cold weather operation, Equipment, Logistics, Aircraft icing.

34-4063

Winter flying package: 2. Tips for flying in cold and

Gallagher, J.D., Canadian as iation, Dec. 1978, 51(12). p.26-7

Airplanes, Cold weather operation.

34-4064

Winter flying package: 3. Icing is for cakes, not

Bramson, A., Canadian aviation, Dec. 1978, 51(12),

Aircraft icing, Ice prevention, Cold weather operation.

34.4065

Influence of the choice of glide plane on the theory of

Whitworth, R.W., Philosophical magazine, Apr. 1980, 41(4), p.521-528, 14 refs. Ice physics, Ice crystals, Proton transport, Orienta-

tion, Velocity, Theories.

34-4066

Numerical solution of a parabolic free boundary problem via Newton's method.

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Hoffmann, K.-H., Jochum, P.

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34-4108

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34-4109

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34-4110

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34-4111

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ings. Revegetation.

34-4112

Reaction of different landscapes to heat producing phenomena in the Oymyakon region. (Reaktsiia ra zlichnykh landshaftov na pirogennye iavleniia

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Forest fires, Landscape types, Taiga, Forest tundra, Alpine tundra, Cryogenic soils, Vegetation.

34-4113

Physiography and glacial geomorphology of the central Black Coast, Palmer Land.
Singleton, D.G., British Antarctic Survey.

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Jan. 1980, No.49, p.21-32, 25 rcfs.
Glacial geology, Patterned ground, Cirques, Glacier ice, Antarctica—Black Coast.

ice, Antarctica—Black Coast.

The physiography and glacial geomorphology of the central Black Coast, Palmer Land, are described. Weathering processes are discussed in relation to the widespread disintegration of the bedrock. A comprehensive account of differentially croded forms is given, and some evidence is put forward supporting theories as to the origin and development of cavernous weathering. Some small-scale patterned ground features are recorded with suggested processes of formation in the antarctic environment. The occurrence of ubiquitous glacial erratics and three supraglacial moraines is noted. (Auth.)

34-4114

Physiography of part of north-eastern Palmer Land. Anckorn, J.F., British Antarctic Survey. Bulletin, Jan. 1980, No.49, p.157-166, 11 refs.

Geologic structures, Topographic features, Ice cover, Antarctica—Palmer Land.

The physiography and glaciation of part of northeastern Palmer Land are described and the controls affecting these factors are discussed. In particular, the striking differences between the respective topographies of Graham and Palmer Lands are noted, and evidence for the recession of the Palmer Land ice cap is presented (Auth.)

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Sea ice, Drift, Tides, Antarctica—Argentine Islands, Antarctica—George VI Sound.

Antarctica—George VI Sound.

The results of tidal analysis of 9 years of sea level records from the Argentine Islands and short records of ice movement from lake sites in George VI Sound are presented. Diurnal tides are normal throughout, but the semi-diurnals show a sharply tuned anti-resonance, most noticeably affecting M2. The Argentine Islands have the unusual property that their tides can nearly vanish near May 2 and Nov. 2. Tidal amplitude of sea level there is significantly lower than that of ice movement recorded in 1935. Tidal ice movement in George VI Sound appears to be quite variable in amplitude and phase. The most reliable and consistent ice record was from Ablation Lake, whose results are similar to those from older ice records at Barry Island in Marguerite Bay. Comparison of Ablation Lake with another site 60 km to the southeast shows that tidal phases increase southward in George VI Sound. (Auth.)

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Vol. 19, p.3-6, in Russian.

Permafrost control, Environmental protection, Radiation balance, Heat balance, Permafrost thermal properties.

34-4117

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nogo pokrova na tempezzikykh gornykh porodj, zlykh gornykh porodj, Melameć, V.G., et al, Merzlotnye issledovaniia, 1980, Wali o 7-25. In Russian. 12 refs. Vol.19, p.7-25, In Russian. Medvedev. A.V.

Frozen rock temperature, Seasonal freeze thaw, Snow cover effect, Analysis (mathematics).

Rapid way of finding temperature shift in homogeneous seasonally and perennially frozen strata. [Express-metod nakhozhdeniia temperaturnoi sdvizhki v odnorodnykh tolshchakh sezonno- i mnogoletnemerzlykh gornykh porody, Il'iasov, V.G., et al, Merzlotnye issledovaniia, 1980, Vol.19, p.26-34, In Russian. 7 refs.

Melamed, V.G. Frozen rock temperature. Seasonal freeze thaw. Permafrost thermal properties, Soil air interface, Heat transfer, Stefan problem.

Quantitative investigation of heat-mass transfer in rocks during phase transformations. (Kolichest-vennoe issledovanie teplo- i massoobmena v gornykh orodakh pri fazovykh perekhodakh<sub>1</sub>, felamed, V.G., *Merzlotnye issledovaniia*, 1980, Melamed.

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Frozen rock temperature, Frost penetration, Soil water migration, Heat transfer, Mass transfer, Phase transformations, Mathematical models, Stefan prob-

Methods of geocryological forecasting and the general geocryological bases for their application. eral geocryological bases for their application. [Metody geokriologicheskogo prognoza i obsh-chegeokriologicheskaia osnova ikh primeneniia, Maksimova, L.N., Merzlotnye issledovaniia, 1980, Vol. 19, p.41-52, In Russian. 12 refs. Geocryology, Forecasting, Aerial surveys, Spaceborne photography, Models, Laboratory techniques, Mathematical models.

34-4121

Indices used in evaluating the stability of permafrost greas to variations in natural conditions and consequences of human activities in permafrost areas. Priznaki otsenki ustolchivosti territorii k izmenennam prirodnykh faktorov i tekhnogennym vozdejstvnam v

oblasti sechnot merzloty). Garagulia, L.S., et al. *Merzlotnye issledovamia*, 1980, Vol.19, p.53-58, In Russian 6 refs

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Geocryology, Forecasting, Environmental protection, Human factors, Permafrost control, Permafrost beneath structures.

34.4122

Quantitative evaluation of heaving intensity in thaw-Quantitative evaluation of heaving intensity in thawing water-saturated grounds. [Metodika kolichestvennol otsenki velichiny puchenila ottaivaiushchikh
vlagonasyshchennykh gruntov].
Ershov, E.D., et al, Merzlotnye issledovanila, 1980,
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Lebedenko, IU.P., Petrov, V.S.
Ground thawing, Ground ice, Soil water migration,
Deformation, Settlement (structural), Analysis
(mathematics).

Methods of studying frozen rock properties during geocryological surveying. [K metodike izuchenia svolstv merzlykh gornykh porod pri merzlotnot

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Trush, N.I., Merziotnye issledovania, 1980, Vol.19, p.67-75, In Russian. 15 refs.
Geocryology, Surveys Frozen rock temperature, Permafrost distribution, Permafrost structure, Active layer, Permafrost weathering, Permafrost depth, Permafrost physics, Mapping.

Permafrost conditions of Franz Josef Land. [Merzlotnye usloviia zemli Frantsa-Iosifa<sub>1</sub>, Kondrat'eva, K.A., *Merzlotnye issledovaniia*, 1980, Vol.19, p.76-101, In Russian. 27 refs.

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Frost penetration, Soil water migration, Soil chemistry, USSR—Baykal Lake.

34-4164

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34-4169

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Denisov, V.V. Sea level, Storms, Tides, Shore erosion, Atmospheric disturbances, Wind velocity, Weather forecasting, Ice conditions, Ice forecasting.

34-4179

Calculating regime characteristics of surge waves Calculating regime characteristics of surge waves from standard wind field data. [Raschet rezhimnykh harakteristik voln zybi po tipovym poliam vetra], Dzheniuk, S.L., Leningrad. Arkticheskh i antarkticheskh nauchno-issledovateľsků institut. Trudy, 1980, Vol.348, p.21-29, In Russian. 5 refs. Ocean currents, Ocean waves, Wind velocity, Wind

direction, Weather forecasting, Meteorological

34-4180

Computer analysis of radar ice cover survey data. rObrabotka rezul'tatov radiolokatsionnol s'emki ledianogo pokrova na EVM<sub>J</sub>. Zubakin, G.K., et al, *Leningrad. Arkticheskli i an*-

Zubakin, O.K., et al, Leningrad. Arkticheski nauchno-issledovateľ ski institut.
Trudy. 1980, Vol.348, p.30-34, ln Russian. 4 refs.
Zuev, A.N., Malorov, O.N.
Sea ice, Drift, Radar photography, Ice reporting, Ice

forecasting.

34-4181

Calculating geometric characteristics of ice cover. [K raschetu geometricheskikh kharakteristik ledianogo pokrovaj,

Zubakin, G.K., et al, Leningrad. Arkticheskii i antarkticheskii nauchno-issledovateľ skii institu Trudy. 1980, Vol.348, p.35-40, In Russian. 6 refs. institut. Petrukovich, V.I.

Hydraulic structures, Sea ice, Ice loads, Drift, Ice navigation, Ice cover thickness, Polynyas, Ice cover strength.

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glaciation years. ¡Ledovyl balans Datskogo proliva v anomal'nye po ledovitosti gody,
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ice, Ice edge, Seasonal variations, Ice formation, Ice deterioration, Ice forecasting.

Porecasting ice conditions and ice edge position in the Danish Strait for fall-winter periods. (Vozmozhnosti prognoza ledovitosti i polozhenila kromki l'da v Dat-

Rogan, B.A., et al. Leningrad Arkticheskii i antarkti-cheskii nauchno-issledovatel skii institut. Trudy, 1980, Vol.348, p.47-54, In Russian. 8 refs.

Zucv, A.N Sea ice, Drift, Ice edge, Ice forecasting, Long range forecasts.

34-4184

Space-time characteristics of seasonal ice conditions in the North Atlantic. [Prostranstvenno-vremennye osobennosti polia sezonnol ledovitosti Severnol Atlan-

Orloy, N.F. Leningrad Arkticheskii i antarkticheskh nauchno-issledovateľskh institut. Trudy, 1980, Vol 348 n 55-59 In Russian 5 refe

Ice conditions, Drift, Ice edge, Ice forecasting, Atlantic Ocean.

34.4185

Forecasting ice edge position in the Labrador Sea for a decade. ¡Metodika prognoza polozheniia kromki l'da

na dekadu v Labradorskom morej, na dekadu v zabradosam minej. Orlov, N.F., Leningrad. Arktichesků i antarktiches-ků nauchmo-issledov ateľsků institut. Trudy, 1980, Vol.348, p.60-64, In Russian. 7 refs.

Sea ice, Ice edge, Ice forecasting, Long range forecasts.

34-4186

Field experiments on wave-ice interaction in the Bering Sca and Greenland waters, 1979.

Wadhams, P., et al, *Polar record*, May 1980, 20(125), p.147-153, 5 refs. Squire, V.A.

Sea ice, Ocean waves, Ice mechanics, Aerial surveys, Remote sensing.

34.4187

Grönlands Geologiske Undersögelse and Geodaetiske Institut North Greenland Expeditions, 1978-80. Higgins, A.K., *Polar record*, May 1980, 20(125). p.153-156, 2 refs Expeditions, Geological surveys, Logistics, Green-

34-4188

Gravity determinations at Vostok.

Bentley, C.R., Polar record, May 1980, 20(125), SCAR bulletin, No.65, May 1980, p.193-195, 9 refs. Gravimetric prospecting, Gravity, Ice sheets, Antarctics Victor (No. 1) (1980)

Gravity connections to Vostok have been made through two routes, one from Mirnyy and the other from McMurdo. These trees are of general interest for gravimentric studies in Antarctica, because they provide a direct airborne link between the stations upon which two major gravitational networks (American and Soviet) are based. These ties are examined in some detail. (Auth)

34.4180

Glacial and glacial marine sediments of the antarctic

continental shelves. Anderson, J.B., et al, *Journal of geology*, 1980, 88(4), .399-414, 30 refs.

Kurtz, D.D., Domack, E.W., Balshaw, K.M.

Marine geology, Glacial deposits, Sediments, Ice shelves, Cores, Ross Sea, Weddell Sea, Antarctica— Ross Sea.

Ross Sea.

Continental shelf deposits recently cored in the Weddell Sea. Ross Sea, and the George V region of Antarctica show three types of sediment. Type 1 sediments are massive, poorly sorted, and textually and mineralog.cally homogeneous down-core; they are unfossiliferous or cortain reworked fossils, lack a preferred pebble orientation, and are overcompacted. They are interpreted as being basal tills. Type 2 sediments are crudely stratified, contain a sorted mud fraction, are texturally and mineralogically heterogeneous downcore, contain distinctive microfossil assemblages, are typically normally compacted, and have a horizontal pebble fabric. Type 3 sediments are similar to Type 2 sediments except that they are depleted in silt and clay and contain a moderately sorted sand fraction. Both Type 2 and Type 3 sediments are deposited from floating ice and reflect the action of marine currents. Distributions of these deposits on the antarctic continental shelf can be related to former glaciologic and marine conditions. (Auth. mod.) 34-4190 34-4190

Avalanche impact landforms in Troms, north Norway. Corner, G.D., Geografiska annaler. Series A Physical geography, 1980, 62A(1-2), p.1-10, 25 refs.

Avalanche deposits. Landforms.

34-4191

Channel development in snow-filled valleys, Reso-

Utte, N.W.T., Canada.

Woo, M.-K., et al, Geografiska annaler. Series A
Physical geography, 1980, 62A(1-2), p.37-56, 15 refs. Sauriol, J.

Meltwater, Runoff, Snowmelt, Channels (water-ways), Snow cover distribution, Stream flow.

34-4192 Drainage systems associated with snowmelt, South Shetland Islands, Antarctica.

Birnie, R.V., et al. Geografiska annaler. Series A Physical geography, 1980, 62A(1-2), p.57-62, 19 refs. Gordon, J.E.

Snow melting, Snow erosion, Channels (waterways), Meltwater, South Shetland Islands.

This paper re-examines the geomorphological role of meltwater derived from snow patches in the light of observations made

during the break up of snow cover on Byers Peninsula in 1976. The object is to draw attention to the erosive capacity of snow melt and the fact that channels created by this action can show similar morphological characteristics to those commonly as-cribed to a fluvioglacial origin. These include the crossing of local topographic divides and commencement in the middle of slopes. (Auth.)

34-4193

Break-up of the Yukon River at the Haul Road Bridge: 1979.

Stephens, C.A., et al, MP 1315, Fairbanks, University of Alaska, Sep. 1979, 22p. + Figs., 5 refs. Report of field activities.

Hanscom, J.T., Osterkamp, T.E.

River ice, Ice breakup, Ice cover thickness, Ice floes, Ice electrical properties, Water temperature, Electrical resistivity, Velocity, United States—Alaska—Yukon River.

14.4194

On the strength of sea ice and a correlation between

On the strength of sea ice and a correlation between the various strength tests. Lane, J.F., National Research Council, Canada. Division of Mechanical Engineering. Laboratory technical report, Sep. 1979, LTR-LT-104, 29p. + 9

Sea ice. Ice strength, Florural strength, Tensile properties, Compressive properties, Brines, Tests.

34-4195

Ice removal from concrete by high pressure water iets.

Kimberley, H.J., et al, National Research Council. Canada. Division of Mechanical Engineering. Laboratory technical report, Apr. 1977, LTR-LT-74, 28p. + 5 figs., 1 ref. Brierley, W.H.

Ice removal, Hydraulic jets, Concrete durability.

34-4196

Size distribution and Z-R relationship of snow parti-cles observed in Nagaoka, Pt.2.

Yagi, T., et al, Japan. National Research Center for Disaster Prevention. Report, Mar. 1980, No 23, p.29-38, ln Japanese with English summary. 11 refs. For Pt.1 see 34-1740.

Uyeda, H. Snowflakes, Particle size distribution, Precipitation gages, Radar echoes, Snowfall.

34.4107

Measurement of the fall velocity of snowflakes in Nagaoka and its application to the Z-R relation.

Uyeda, H., et al, Japan. National Research Center for Disaster Prevention. Report, Mar. 1980, No.23.

p.39-46, In Japanese with English summary. Yagi, T.

Snowflakes, Velocity, Radar echoes, Snowfall, Particle size distribution. Precipitation gages.

34-4198

Workshop on Environmental Protection of Permafrost Terrain.

Brown, J., et al. *Northern engineer*, Summer 1980, 12(2), MP 1314, p.30-36, 8 refs.

Hemming, J.E. Permafrost preservation. Environmental protection, Meetings, Thermal effects, Soil erosion, Route surveys, Site surveys, Design criteria.

34-4199

Estimating water equivalent snow depth from related

meteorological variables. Steyaert, L.T., et al, U.S. Nuclear Regulatory Commission. Report, May 1980, NUREG/CR-1389, 39p., 18 refs.

LeDuc, S.K., Strommen, N.D., Nicodemus, M.L., Guttman, N.B. Snow water equivalent, Snow depth, Snow loads,

Meteorological data, Models. 34-4200

Removal of volatile trace organics from wastewater by overland flow land treatment.

Jenkins, T.F., et al, Journal of environmental science and health: Part A. Environmental science and engi-neering, 1980, A15(3), MP 1313, p.211-224, 14 refs. Leggett, D.C., Martel, C.J.

Waste treatment, Water treatment, Waste disposal, Vaporizing.

Vaporizing.

A prototype overland flow land treatment system was studied to determine its effectiveness in reducing the levels of volatile trace organics in municipal wastewater. Chlorinated pi mary wastewater, water collected from the surface at various points downslope and runoff were analyzed by GC/MS, using a purge and trap sampler. Results indicated that efficient removal of a number of volatile substances including chloroform and toluene can be achieved by this method of treatment. Loss of these substances was found to follow first order kinetics. The observed behavior is consistent with a volatilization process.

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Proceedings of the Joth annual meeting. Fastern Snow Conference, Alexandria Bay, New York, 1979, 149p., Refs. passim. For individual papers see 34-4202 through 34-4212. Snow surveys, Meetings, Snow strength, Snow-storms, Snow water equivalent, Snow hydrology.

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Vegetation-snow relationships in Labrador.

Adams, W.P., et al, Eastern Snow Conference, 36th. Proceedings, Alexandria Bay, New York, 1979, p.1-25 18 refs Barr, D.R.

Snow cover effect, Vegetation, Snow depth, Snow density, Snow water equivalent, Tundra, Mapping. 34-4203

Estimating water equivalent depth from related meteorological variables.

Proceedings, Alexandria Bay, New York, 1979, p.26-

39, 11 refs. LeDuc, S.K., Strommen, N.D., McCollom, W.E.,

Snow water equivalent, Snow loads, Precipitation (meteorology), Wind factors, Temperature effects,

34-4204

Square-grid spatial interpolation of snow cover for a hydrometeorological information system.

Thompstone, R.M., et al. Eastern Snow Conference, 36th. Proceedings, Alexandria Bay, New York, 1979, p. 40-52, 12 refs.

Pilon, P.J.

Snow cover distribution, Watersheds, Snow hydrology, Mapping.

34-4205

Some factors affecting spring snowmelt within Narrows Mountain Brook basin, a forested watershed in central New Brunswick.

Gordon, r. M., Eastern Snow Conference, 36th. Proceedings, Alexandria Bay, New York, 1979, p.53-67.

Snowmelt, Watersheds, Radiation balance, Thermodynamics, Meteorological factors, Seasonal variations, Statistical analysis.

34-4206 Snowmelt runoff forecasting using state estimation

techniques.
O'Hayre, A.P., Eastern Snow Conference, 36th. ceedings, Alexandria Bay, New York, 1979, p.68-74, 20 refs

Snowmelt, Runoff forecasting, Models.

Mean 700 mb circulation patterns associated with the snowiest and least snowy winter months over the east-

ern United States. Wagner, A.J., Eastern Snow Conference, 36th. Proceedings, Alexandria Bay, New York, 1979, p.75-94. 16 refs

Snowfall, Temperature effects, Atmospheric circula-tion, Meteorological factors, Winter, Snow depth,

34-4208

Breakup of streams in the Canadian high Arctic. Woo, M., Eastern Snow Conference, 36th. Proceedings, Alexandria Bay, New York, 1979, p.95-107, 6

Ice breakup, Streams, Runoff, Snow depth, Snowmelt, Radiation balance, Computer applications, Meteorological charts.

34-4209

Ultrasound low power sonar for snow thickness measurements.

Caillet, A., et al, Eastern Snow Conference, 36th. Proceedings, Alexandria Bay, New York, 1979, p.108-116, 2 refs. D'Aillon, F.G., Zawadzki, I.

Snow depth, Snow acoustics, Acoustic measurement, Experimentation.

34-4210

Snow studies associated with the sideways move of

Tobiasson, W., MP 1312, Eastern Snow Conference,

Tobiasson, W., MP 1312, Eastern Snow Conference, 36th. Proceedings, Alexandria Bay, New York, 1979, p.117-124, 4 refs.

Snow strength, Bearing strength, Foundations, Stresses, Snow cover stability, Snow surveys.

In 1977, DEW Line station DYE-3 on the Greenland Ice Cap was moved sideways 210 ft (64 m) onto a new undistorted foundation. When this life extension concept was proposed, abrupt failure of the supporting snow was a major concern. Snow samples were obtained and strength tested at CRREL to determine the chance of an abrupt failure of the supporting

snow. Model studies were also performed to determine the bearing capacity of the snow, and predictions were made of foundation settlement during the move. The results indicated that the move could be accomplished safely

Climatology of freezing rain in the Montreal area. Leech, M.E., Eastern Snow Conference, 36th. Proceedings, Alexandria Bay, New York, 1979, p.125-140, 33 refs.

Freezing, Rain, Climatology, Ice storms, Meteorological data, Glaze, Temperature effects. Icing. Ice accre-

Results of Snow Survey Schedule Committee Questionnaire

Hansen, P.L., et al, Eastern Snow Conference, 36th. Proceedings, Alexandria Bay, New York, 1979, p.141-147. 1 ref.

Faulin, M.G., Wagner, C.R. Snow surveys, Meetings.

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Symposium on biological problems of the North, 8th, Apatity, 1979. Abstracts of the papers. [Tezisy dok-

Simpozium Biologicheskie problemy Severa, 8th, Apatity, 1979, Apatity, 1979, 177p., In Russian. For selected abstracts see 34-4214 through 34-4242.

Kriuchkov, V.V., ed. Economic development, Human factors, Environmental protection, Forest fires, Polar regions, Cryogenic soils, Vegetation, Tundra, Forest tundra, Taiga, Land-

34-4214

Economic development and environmental protection in the Far North. Osvoenie Krainego Severa i okhrana ego prirody<sub>1</sub>,

Kriuchkov, V.V., et al, Simpozium Biologicheskie pro-Kriuchkov, V.V., et al, Simpozium Biologicheskie problemy Severa, 8th, Apatity, 1979. Tezisy dokladov (Symposium on biological problems of the North, 8th, Apatity, 1979. Abstracts of the papers) edited by V.V. Kriuchkov, Apatity, 1979, p.3-4, In Russian. Syroechkovskit, E.E.

Economic development, Permafrost distribution, Permafrost structure, Human factors, Environmental

34-4215

Plant introduction and landscape gardening in the Far North. (Problemy introduktsii rastenii i zelenogo

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Arctic landscapes, Introduced plants, Plant ecology, Frost resistance, Urban planning.

34-4216
Paludification of land in the North European USSR. (Zabolachivanie sushi na Evropeiskom Severe SSSR.), Piavchenko, N.I., Simpozium Biologicheskie problemy Severa, 8th, Apatity, 1979. Tezisy dokladov (Symposium on biological problems of the North, 8th, Apatity, 1979. Abstracts of the papers) edited by V.V. Kriuchkov, Apatity, 1979, p.9-11, In Russian. Permafrost structure, Permafrost hydrology, Paludification, Swamps, Peat, Mosses, Forest tundra.

34-4217

Changes in Subarctic and boreal highlands vegetation due to human activities. [Antropogennye izmeneniia rastitel'nogo mira subarkticheskikh i boreal'nykh vysokogoriij, Gorchakovskii, P.L., Simpozium Biologicheskie pro-

blemy Severa, 8th, Apatity, 1979. Tezisy dokładov (Symposium on biological problems of the North, 8th. Apatity, 1979. Abstracts of the papers) edited by V.V. Kriuchkov, Apatity, 1979, p.12-13, in Russian. Subarctic landscapes, Human factors, Environmental protection, Tundra, Forest tundra, Taiga, Swamps.

'Arctic" problems in the biology of the White Sea. "Arctic" problems in the biology of the White Sea. ("Arkticheskie" problemy biologii Belogo moria), Khlebovich, V.V., Simpozium Biologicheskie problemy Severa, 8th, Apatity, 1979. Tezisy dokladov (Symposium on biological problems of the North, 8th, Apatity, 1979. Abstracts of the papers) edited by V.V. Kriuchkov, Apatity, 1979, p.13-15, In Russian. Marine biology, Cryobiology, Plant ecology, Ice cover effect, USSR—White Sea. 34-4219

Hepaticae-pioneers in matting disturbed Yamal tundra soils. ¡Pechenochnye mkhi kak pionery zader-neniia pervichnogo substrata v tundrakh IAmala<sub>1</sub>, ndreeva, E.N., Simpozium Biologicheskie problemy Schera, 8th, Apatity, 1979. Tezisy dokładov (Symposium on biological problems of the North, 8th. Apatity, 1979. Abstracts of the papers) edited by V.V. Kriuchkov, Apatity, 1979, p.21-22, In Russian Tundra, Geocryology, Soil erosion, Revegetation, Mosses.

Tracked vehicle effect on subarctic tundra vegetation. (Vliissie dvizheniia gusenichnogo transporta na ra titel'nost' subarkticheskol tundry).

Andreev, V.N., et al., Simpozium Biologicheskie problemy Severa, 8th. Apatity, 1979. Tezisy dokladov the proposition of the Apatity, 1979. Apatity, 1979. Abstracts of the papersy edited by V.V. Kriuchkov, Apatity, 1979, p.22-24, In Russian. Perfil'eva, V.l. Tundra, Tracked vehicles, Soil erosion, Protective

vegetation, Mosses, Lichens.

Regularities governing plant distribution with respect to snow cover in the southeastern Chukotskiv Peninsula. ¡Nekotorye zakonomernosti raspredeleniia rastiteľ nosti v zavisimosti ot snezhnogo pokrova na jugo-

titel nosti v zavismosti ot snezhnogo pokrova na jugovostoke Chukotskogo poluostrovaj.
Balandin, S.A., et al, Simpozium Biologicheskie problemy Severa, 8th. Apatity, 1979. Tezisy dokladov (Symposium on biological problems of the North, 8th, Apatity, 1979. Abstracts of the papers) edited by V.V. Kriuchkov, Apatity, 1979, p.24 25, In Russian. Razzhivin VIII

Vegetation patterns, Tundra, Plant ecology, Ecosys tems, Snow cover effect, Subarctic landscapes, USSR—Chukotskiy Peninsula.

34.4222

Enrichment of cultivated tundra meadow grasses with wild legumes. [Obogashch nie travostoja sejanykh lugov v tundre dikorastushc jimi bobovymij.

lugov v tundre dikorastiski imi bobovymi, Kotelina, N.S., et al, Simpc ium Biologicheskie pro-blemy Severa, 8th, Apatity, 1979. Tezisy dokladov (Symposium on biological problems of the North, 8th, Apatity, 1979. Abstracts of the papers) edited by V.V. Kriuchkov, Apatity, 1979, p 37-38, In Russian.

Grunina, L.K. Tundra, Meadow soils, Cryogenic soils, Vegetation.

34-4223

Zonal distribution of Hepaticae in the Khibiny Mountains. (Raspredelenie vidov pechenochnikov po poia-sam v Khibinakh). Konstantinova, N.A., Simpozium Biologicheskie pro-

blemy Severa, 8th, Apatity, 1979. Tezisy dokladov (Symposium on biological problems of the North, 8th. (symposium on biological problems of the North, 8th, Apatity, 1979. Abstracts of the papers) edited by V.V. Kriuchkov, Apatity, 1979, p.38-39, in Russian. Alpine tundra, Plant ecology, Mosses, Forest tundra, Forest land, Alpine landscapes.

34-4224

Changes in ecosystems of northern Kola Peninsula due to human activities. [Izmenenie ekosistem Kol skogo severa pod vlijanjem antropogennot dejatel'-

Kriuchkov, V.V., et al, Simpozium Biologicheskie proberny Severa, 8th, Apatity, 1979. Tezisy doklados (Symposium on biological problems of the North, 8th, Apatity, 1979. Abstracts of the papers) edited by V.V. Krüenkov, Apatity, 1979, p.39-42, In Russian Syroid, N.A.

Human factors, Plant ecology, Ecosystems, Arctic landscapes, Environmental protection, Mining, USSR—Kola Peninsula.

34-4225

Natural reestablishment of vegetational cover in Central Yakutia. ¡Estestvennoe vosstanovlenie rastitel'-nogo pokrova v tsentral'not lAkutii<sub>1</sub>,

nogo pokrova v tsentral nol lAkutij. Nakhabtseva, S.F., Simpozium Biologicheskie pro-blemy Severa, 8th, Apatity, 1979. Tezisy dokladov (Symposium on biological problems of the North, 8th, Apatity, 1979. Abstracts of the papers) edited by V.V. Kriuchkov, Apatity, 1979, p. 48-49, In Russian. Permafrost distribution, Landscape types, Soil ero-sion, Revegetation, USSR—Yakutia.

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Types of East Taymyr tundras and their significance as cattle grazing grounds. (O tipakh tundr Vostochnogo Talmyra i ikh pastbishchnom znachenii dlia ovt-

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Changes in vegetational cover of Yamal arctic tundras induced by reindeer grazing. [Izmenenie rastitel'nogo pokrova pod vliianiem vypasa olenel v gipoarktiches-

pokrova pod vlianiem vypasa olenel v gipoarktiches-kikh tundrakh IAmala<sub>1</sub>, Rebristaia, O.V., Simpozium Biologicheskie problemy Severa, 8th, Apatity, 1979. Tezisy dokladov (Sym-posium on biological problems of the North, 8th, Apatity, 1979. Abstracts of the papers) edited by V.V. Kriuchkov, Apatity, 1979, p. 55-56, In Russian. Tundra, Landscape types, Cryogenic soils, Soil ero-sion, Revegetation, Grazing.

Pollination ecology of Alpine tundra plants on the Kolyma Highlands. [Ekologiia opyleniia rastenii gor-

Kolyma Highlands. (Ekologiia opyleniia rastenii gornol tundry Kolymskogo nagoria).
Tikhmenev, E.A., Simpozium Biologicheskie problemy Severa, 8th, Apatity, 1979. Tezisy dokladov (Symposium on biological problems of the North, 8th, Apatity, 1979. Abstracts of the papers) edited by V.V. Kriuchkov, Apatity, 1979, p.57-58, In Russian.
Alpine tundra, Cryogenic soils, Plant ecology, Plant

Studying disturbed soils of reindeer grazing fields in the Messoyakha-Noril'sk pipeline area. (Metod izu-

the Messoyakha-Noril'sk pipeline area. [Metod izucheniia narushennykh olen'ikh pastbisheh v ralone gazoprovoda Messoiakha-Noril'sk]. Shchelkunova, R.P., et al, Simpozium Biologicheskie problemy Severa, 8th, Apatity, 19/9. Tezisy dokladov (Symposium on biological problems of the North, 8th, Apatity, 1979. Abstracts of the papers) edited by V.V. Kriuchkov, Apatity, 1979, p.66-67, In Pussian.

Savchenko, LV

Cryogenic soils, Soil erosion, Tracked vehicles, Revegetation, Tundra.

34-4230
Relation between light requirements and pigmentation of tundra plants on Wrangel Island. (O soderzhanii pigmentov u rastenil tundr ostrova Vrangelia v sviazi s ikh svetoliubiem].
Aleksandrova, N.M., et al, Simpozium Biologicheskie problemy Severa, 8th, Apatity, 1979. Tezisy dokladov (Symposium on biological problems of the North, 8th, Apatity, 1979. Abstracts of the papers) edited by V.V. Kriuchkov, Apatity, 1979, p.70-71, In Russian.

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Respiration of Subarctic plants. Dykhatel'naia spo-

sobnost' rastenit Subarktiki,
Govorov, P.M., et al, Simpozium Biologicheskie pro-Govorov, P.M., et al, Simpozium Biologicneskie problemy Severa, 8th, Apatity, 1979. Tezisy dokladov (Symposium on biological problems of the North, 8th, Apatity, 1979. Abstracts of the papers) edited by V.V. Kriuchkov, Apatity, 1979, p.74-75, In Russian. Torgovkina, E.E.

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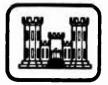
as any item routinely produced and available for applications within the environmental sciences. These range from photographic displays, chasts, and teletype messages to the raw alphanumeric data available on computer disk and tape. A brief description of the product, its known accuracies (when applicable), a list of primary users, and an example of the product are given; a summary table of products can be found at the end of this volume for quick reference. Data for Antarctica, derived almost exclusively from satellite observations, and sea ice charts for the Southern Oceans are included among NESS products.

# Bibliography on **COLD REGIONS SCIENCE AND TECHNOLOGY**

**VOLUME 34, Part 2** 

Geza T. Thuronyi, Editor

December 1980





# NOTE

This is a companion issue to Vol. 34, Pt.1. The latter contains the full bibliographic citations referred to in the author and subject indexes included in this issue. In the author index principal and joint personal and corporate authors are listed along with the title, date, pagination, and language of the document and the accession number. The subject index is composed of three basic elements: 1) terms taken from a controlled vocabulary based on the *Thesaurus of Engineering and Scientific Terms* (LEX-E-JC), 2) free terms added as needed, 3) geographic names, generally entered under countries. The terms are listed in a single alphabetical arrangement, along with title (original, translated, abridged, expanded, or supplied), principal author, date, pagination, and language of pertinent documents, and their accession numbers.

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